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1 PURPOSE OF THIS PLAN  It is the desire of Texas Tech University to set forth policies, procedures, and work practices capable of informing employees of physical and chemical health hazards associated with chemicals in "work and storage spaces" as defined by 29 CFR 1910.1450 - Occupational Exposures to Hazardous Chemicals in Laboratories, and to train employees to maintain exposures below the limits prescribed in 29 CFR 1910, subpart Z. This document is designed to comply with the requirements and intent of 29 CFR 1910.1450 and employee "right-to-know" legislation.

TEXAS TECH UNIVERSITY HEALTH AND SAFETY POLICY

It is the policy of Texas Tech University to conduct all educational, research, and campus activities safely and in a manner that protects the health of employees, students, and the public.

Each administrator must be committed to the enforcement of the health and safety policies of the University and to implement appropriate safety practices within his or her area of responsibility.

All faculty members and others involved in instructional and/or research programs are responsible for seeing that the students in their courses and laboratories are properly trained and educated about applicable safety and health safety policies and practices prior to exposure to instructional or research hazards.

Each employee and student is entitled to have access to information about the University's health and safety policies and practices and is responsible for knowing and adhering to health and safety policies and practices as they are applicable to the instruction, research, and work settings in which he or she participates.

Each employee is responsible for maintaining a safe work place. Employees have a continuing responsibility to develop and follow practices that achieve these goals.

Each employee who manages or supervises the work of others is additionally responsible for seeing that employees and students for whom they are responsible for are properly trained and educated about safety and health practices.

Each guest, vendor, or contractor of the University is expected to adhere to the health and safety policies of the University while on campus.

All University-related facilities, activities, and programs shall be designed, conducted and, operated in a manner which reasonably protects human health and safety. Adherence to these principles is necessary in order for the University to achieve its mission of providing quality instruction, research, and services.
The University strives to provide training and education conducive to the establishment and maintenance of safe educational, research, and work environments.

2 EMERGENCY ASSISTANCE INFORMATION

TTU Environmental Health and Safety
- Daytime Emergencies (M-F, 8:00am – 5:00pm) – 742-3876
- Non-daytime Emergencies (24 hrs/day, 7 days/week) – 742-3328

TTU Emergency Maintenance
- Any Time – 742-3328

TTU Police (UPD)
- Emergency – 9-911
- Non-Emergency – 742-3931

3 USEFUL ACRONYMS AND ABBREVIATIONS

3.1 ACGIH – American Conference of Governmental Industrial Hygienists
3.2 ALARA – As Low As Reasonably Achievable
3.3 ALARP – As Low As Reasonably Practical
3.4 ANSI – American National Standards Institute
3.5 BA – Biological Agent
3.6 BEI – Biological Exposure Index
3.7 C – Ceiling
3.8 CAS – Chemical Abstract Service
3.9 CDC – Centers for Disease Control and Prevention
3.10 CFR – Code of Federal Regulations
3.11 CHO – Chemical Hygiene Officer
3.12 CHP – Chemical Hygiene Plan
3.13 CIH – Certified Industrial Hygienists
3.14 CSB – Chemical Safety Board
3.15 CSP – Certified Safety Professional
3.16 DCHO – Departmental Chemical Hygiene Officer
3.17 DOD – Department of Defense
3.18 DOE – Department of Energy
3.19 DOT – Department of Transportation
3.20 EH&S – Environmental Health and Safety
3.21 EPA – Environmental Protection Agency
3.22 ERP – Emergency Response Plan
3.23 GHS – Globally Harmonized System
3.24 HAZCOM – Hazardous Communications
3.25 HAZOP – Hazard and Operability Study
3.26 HAZWOPER – Hazardous Waste Operations and Emergency Response
3.27 HEPA – High Efficiency Particulate Air
3.28 HMIS – Hazardous Material Information System
3.29 IDLH – Immediate Danger to Life or Health
3.30 IFC – International Fire Code
3.31 IO – Institutional Official
3.32 ISO – International Organization for Standardization
3.33 LASER – Light Amplification by Stimulated Emission of Radiation
3.34 LC50 – Air concentration lethal to 50% of the test population
3.35 LD50 – Dose lethal to 50% of the test population
3.36 LEL – Lower Explosive Limit or Lower Exposure Limit
3.37 LOAEL – Lowest Observed Adverse Effect Level
3.38 LOEL – Lowest Observed Effect Level
3.39 MSDS – Material Safety Data Sheet
3.40 NEC – National Electric Code
3.41 NFPA – National Fire Protection Agency
3.42 NIH – National Institute of Health
3.43 NIOSH – National Institute for Occupational Safety and Health
3.44 NOAEL – No Observed Adverse Effect Level
3.45 NOEL – No Observed Effect Level
3.46 OEL – Occupation Exposure Limit
3.47 OSHA – Occupational Health and Safety Administration
3.48 PEL – Permissible Exposure Limit
3.49 PI – Principal Investigator
3.50 PPE – Personal Protective Equipment
3.51 REL – Recommended Exposure Limit
3.52 RQ – Reportable Quantity
POLICIES

4.1 OSHA REGULATED SUBSTANCES: It is University policy to keep employee exposures to chemical substances below the OSHA exposure limits established in 29 CFR 1910, subpart Z and as low as reasonably achievable through the use of work practices, engineering controls, and personal protective equipment. The exposure limits include Permissible Exposure Limits (OSHA), Threshold Limit Values (ACGIH), and Recommended Exposure Limits (NIOSH); Time Weighted Averages, Short Term Exposure Limits, and Ceiling Values. The most restrictive value is to be used (see Appendix K for list).

4.1.1 All policies included in this Chemical Hygiene Plan apply to all areas of TTU activity. For convenience, this document uses the term “laboratory” to refer to the areas in which hazards are used, but the practices and policies described herein apply to all on-campus and off-campus areas in which TTU faculty, students, or staff conduct teaching and research that involves chemical, biological, or physical hazards. These areas include, but are not limited to, laboratories, studios, shops, field sites, and classrooms.

4.1.2 LIST OF OSHA REGULATED SUBSTANCES: It is University policy to identify those substances regulated by 29 CFR 1910, subpart Z within each laboratory area. Departments will ensure that each lab will enter their chemical inventories into the TTU EH&S Assistant chemical inventory system and update the inventory at least annually.
4.2 Eating, drinking, chewing gum, smoking or other use of tobacco, taking medications, and the application of cosmetics are strictly prohibited in laboratories.

4.2.1 Storage of food, drinks, gum, candy, tobacco, cosmetics, and medications in any way is not permitted in the laboratory, unless the items are for research/experimental purposes or included in first aid kits and clearly labeled as such.

4.3 Proper lab attire must be worn at all times in the laboratory:

4.3.1 Perforated shoes, sandals, or shoes such as running shoes which are not liquid repellant shall not be worn in the laboratory;

4.3.2 Shorts or other garments which expose the skin of legs or feet shall not be worn in the laboratory;

4.3.3 Lab coats and eye protection must be worn while in a research or academic support laboratory and in a chemical preparation or dispensing area while chemical and biological agents are not behind a physical barrier. Appropriate gloves must be worn while working with an agent in any of the above-mentioned areas;

4.3.3.1 If a different type of PPE is required or use of PPE could result in injury (e.g. loose clothing around moving machinery), the SOP for these activities must state the PPE that must or must not be used while performing the required operations;

4.3.3.2 In freshman-level chemical/biological laboratories, the minimum PPE required while working with chemicals/biological agents include the all the following: Laboratory aprons, protective sleeves, chemical splash goggles, and gloves appropriate to the agents being used. Students may wear approved laboratory coats as well;

4.3.4 Visitors to the lab are required to wear the same items mentioned above while chemical/physical/biological agents are in use. If visitors refuse to don PPE, or if PPE is not available, entry will be refused;

4.3.5 Individuals at a desk or computer work station inside of the laboratory are required to wear the same PPE required to enter the lab. If (and only if) no hazardous operations are being conducted and all dangerous or hazardous chemical/physical/biological agents are stored behind a physical barrier (e.g.
inside a closed cabinet, closed refrigerator, or closed drawer), PPE can be removed. All laboratorians must always put their PPE back on any time that any dangerous or hazardous chemical/physical/biological agents are brought out of storage.

5 RESPONSIBILITIES

5.1 GENERAL RESPONSIBILITY FOR SAFETY: The implementation of University health and safety policies and procedures is the responsibility of the management, faculty, and staff of each department. All laboratorians (including faculty, employees, and students) are expected to participate actively in the program to ensure its success.

5.2 ENVIRONMENTAL HEALTH AND SAFETY:

5.2.1 Maintain a list of laboratories affected by the Chemical Hygiene Plan (CHP) that is provided to EH&S annually by the individual departments;

5.2.2 Maintain lists of laboratory chemicals that are provided to EH&S annually by the individual laboratories;

5.2.3 Maintain an (M)SDS library;

5.2.4 Supply Respiratory Protection Program information and training as required;

5.2.5 Train laboratory personnel on the principles of the CHP;

5.2.6 Respond to emergencies in the event of a spill or release;

5.2.7 Collect wastes and maintain waste records.

5.3 UNIVERSITY CHEMICAL HYGIENE OFFICER: The Laboratory Safety Manager will function as the University Chemical Hygiene Officer (UCHO) and is responsible for the oversight of all aspects of the Chemical Hygiene Plan (CHP). Certain aspects of the program may be delegated to others as indicated throughout this document.

5.3.1 Work with administrators and other employees to develop and implement appropriate chemical hygiene policies and practices;

5.3.2 Monitor procurement, use, and disposal of chemicals used on the TTU campus;
5.3.3 Help Departmental Representatives develop precautions and adequate facilities;

5.3.4 Conduct personnel exposure monitoring as necessary;

5.3.5 Develop and implement the laboratory hood surveillance program;

5.3.6 Maintain an inventory of laboratory hoods;

5.3.7 Establish criteria for evaluating laboratory hood performance;

5.3.8 Recommend correction of deficiencies in hood performance;

5.3.9 Assist in performing physical and health hazard determinations for chemicals generated within the lab;

5.3.10 Know the current legal requirements concerning regulated substances;

5.3.11 Seek ways to improve the Chemical Hygiene Program;

5.3.12 Assist in implementing related training;

5.3.13 Provide announced and/or unannounced chemical hygiene and housekeeping inspections;

5.3.14 The UCHO has the authority to remove any individual from a laboratory that is not following the practices outlined in the University Chemical Hygiene Plan or the Laboratory Safety Plan for the laboratory in question.

5.4 DEPARTMENTAL CHEMICAL HYGIENE OFFICER (DCHO): This individual is appointed by the head of the department. The appointment of a DCHO must be relayed to EH&S. The DCHO will be the contact between the department and UCHO.

5.4.1 Report any incident involving chemicals to the UCHO immediately, incident reports shall be submitted to the UCHO within 24 hours of receipt;

5.4.2 Perform an initial evaluation of incidents and look for possible overexposure;

5.4.3 Assess the need for medical consultation/examination;

5.4.4 Assess the need for employee medical monitoring;
5.4.5 Assist in scheduling medical examinations for employees;
5.4.7 Notify the UCHO of the need for medical monitoring, consultation and/or examination;
5.4.8 Provide the UCHO with a list of laboratories that are in use, and the responsible party for the laboratory on a yearly basis;
5.4.9 Perform announced and/or unannounced chemical hygiene and housekeeping inspections, including routine inspections of emergency equipment and document the findings:
5.4.9.1 Departmental chair and PI/lab manager shall be informed of results of inspections and documentation shall be made available to the UCHO upon request.
5.4.10 The DCHO has the authority to remove any individual from a laboratory and/or take pictures of any individual or area in the laboratory that are not in compliance or following the practices outlined in the University Chemical Hygiene Plan or the Laboratory Safety Plan for the laboratory in question;
5.4.11 Maintain a list of laboratories affected by the Chemical Hygiene Plan (CHP) and supply this list to the UCHO when there are updates.

5.5 PRINCIPAL INVESTIGATOR/LABORATORY SUPERVISOR:
5.5.1 Each laboratory shall have a Principal Investigator or Laboratory Supervisor assigned to it;
5.5.2 Prepare and implement a Laboratory Safety Plan (Refer to Section 11 for requirements of a Laboratory Safety Plan);
5.5.3 Ensure containers are labeled with required information, segregated by their hazard class and stored in an appropriate manner (see Appendix A);
5.5.4 Perform a hazard determination of chemicals generated within the laboratory;
5.5.5 Ensure all individuals who enter their lab(s) know and follow the chemical hygiene rules, that personal protective equipment is available and protective equipment is in working order;
5.5.6 Prepare written procedures for all operations conducted in the laboratory;
5.5.7 Date receipt and track the age of peroxide forming compounds;

5.5.7.1 Test peroxide formers for peroxide formation every three to six months; (see Appendix F);

5.5.8 Provide regular chemical hygiene and housekeeping inspections, including routine inspections of emergency equipment using Appendix C.

5.5.9 Determine required levels of protective apparel and equipment and document this information in written procedures;

5.5.10 Ensure facilities and training for use of any material being ordered or used are adequate;

5.5.11 Notify the DCHO and UCHO of the need for medical monitoring, consultation and/or examinations;

5.5.12 Supply all appropriate PPE to all individuals entering the laboratory and ensure that the PPE is used;

5.5.13 Ensure that all laboratory personnel with access to his/her laboratory have taken Laboratory Safety Training prior to being given permission to enter the laboratory;

5.5.14 Ensure that all laboratory personnel having access to their laboratory are in compliance with the CHP;

5.5.15 Ensure that chemical containers are labeled with required information;

5.5.16 Check eyewashes weekly to make sure they are running properly and if they need maintenance contact TTU Building Maintenance and Construction to repair;

5.5.17 Check fire extinguishers to make sure they are charged and in date and if they have not been inspected within the last year or they are not charged contact the TTU Fire Marshalls' office at 742-0145 or 742-0146 to have them serviced;

5.5.18 Appoint a member of the laboratory that is responsible for preparing and updating the list of chemicals in the laboratory and providing this list to the DCHO and UCHO;
5.5.19 Appoint a member of the laboratory as the Laboratory Safety Captain.

5.6 LABORATORY SAFETY CAPTAIN

5.6.1 The Laboratory Safety Captain will serve as the liaison between the PI, laboratory group members, DCHO, UCHO, and other offices. The responsibility of the Laboratory Safety Captain will be outlined by the respective departments and PIs.

5.7 LABORATORY PERSONNEL (ANYONE WORKING IN A LABORATORY):

5.7.1 Follow all procedures outlined in the TTU CHP and Laboratory Safety Plan;

5.7.2 Adhere to recommendations made by the Laboratory Safety Captain, PI, DCHO, and UCHO;

5.7.3 Undergraduate and graduate students will receive annual Laboratory Safety Training supplied by EH&S online or by seminar. PIs and laboratory supervisors will receive biannual Laboratory Safety Training supplied by EH&S online or by seminar and following any updates to this program.

5.7.4 Receive additional training that is required that is listed in the Laboratory Safety Plan (see Section 11).

6 NON-TTU PERSONNEL

6.1 Individuals seeking prolonged access (greater than 24 hours) to laboratories on campus to perform work or experiments shall receive the permission of the Principal Investigator/Laboratory Supervisor in writing before entering a laboratory.

6.2 Non-TTU personnel must wear the appropriate PPE designated for the particular laboratory for entrance into the laboratory.

6.3 Non-TTU personnel must complete the TTU-EH&S Laboratory Safety Training prior entering the laboratory.

6.3 Non-TTU personnel entering laboratories where chemical or biological agents are being used must complete TTU EH&S Laboratory Safety Training prior to entering the laboratory. If chemical or biological agents are not being used Laboratory Safety Training is not required, but other training may be required that is listed in the Laboratory Safety Plan (see Section 11).
6.4 Dignitaries visiting the laboratories shall wear the appropriate PPE for entrance to the laboratory and must be escorted by a senior member of the laboratory. Research operations shall be reduced to level of demonstration.

6.5 For minors that are going to be in the laboratory for a tour, the following guidelines shall be followed:

6.5.1 The Department Chair must give written permission to the PI;

6.5.2 Groups will be no larger than 10 minors per senior laboratory member at a time;

6.5.3 The PI/laboratory supervisor must be in direct supervision while the tour group is in the laboratory;

6.5.4 Appropriate PPE must be worn by all individuals while in the laboratory when chemical, physical or biological hazards are present;

6.5.5 Research operations must be suspended while the tour group is in the laboratory; demonstration activities are allowed;

6.5.6 If an active experiment is to be observed, section 8 must be followed.

7 MAINTENANCE WORKERS IN LABORATORIES

7.1 Maintenance workers must check in with the building manager or responsible party of a building before entering the laboratory.

7.2 Maintenance workers must also notify the Principal Investigator/Laboratory Supervisor, if present, before entering the laboratory.

7.3 While in the laboratory the required PPE for entry must be worn.

7.3.1 Appropriate PPE must be identified and used if working with moving equipment (see 4.3.3.1).

8 MINORS IN LABORATORIES: A minor is an individual under the age of 18 years.

8.1 Minors age 13 years and younger are not eligible for laboratory study or work experiences, or allowed to be present in laboratories or other hazardous work areas at TTU, with the following exceptions and guidelines:
8.1.1 Special observation-only experiences may be arranged for minors (including those age of 13 years and younger) through the sponsoring department, the Associate Vice President for Research (Research Integrity) and EH&S;

8.1.2 Special participatory/educational laboratory experiences involving minors age 13 years and younger may be considered on a case-by-case basis by the sponsoring department, if authorized in accordance with section 8.12 below, provided that the minor is:

8.1.2.1 Under the direct supervision of the sponsoring investigator or his/her agent; and

8.1.2.2 Not involved and/or exposed in any activities that could be considered “particularly hazardous” as defined in 29 CFR 570, “Child Labor Regulations, Orders and Statements of Interpretation,” or that may be considered to be detrimental to their health or well being.

8.1.3 For purposes of (8.1.1) or (8.1.2) above, all minors under the age of 14 must be properly supervised and accompanied by an adult while on TTU grounds and within TTU facilities where hazards are present.

8.2 Minors of age 14 and 15 years may participate, if authorized in accordance with section 8.12 below, in laboratory study or work experiences that do not include work in areas or occupations considered to be “particularly hazardous” as defined in 29 CFR 570, “Child Labor Regulations, Orders and Statements of Interpretation,” or that may be considered to be detrimental to their health or well being, including, but not limited to, the following:

8.2.1 Any work in a workroom where ionizing radioactive materials or ionizing radiation-producing devices are present or used;

8.2.2 Any work in any workroom in which the following conditions may exist:

8.2.2.1 Potential presence or use of “highly hazardous” biological or chemical materials as defined by the TTU IBC and ILSC;

8.2.2.2 Potential presence of infectious diseases transmitted by an aerosol route;

8.2.2.3 Potential exposures to animals with infections potentially transmissible to humans, human blood, body fluids, or tissues;
8.2.2.4 Potential exposures to Level 3 or 4 biological agents (as defined by the Centers for Disease Control and Preventions, CDC);

8.2.2.5 Potential exposures to Level 3 or 4 chemicals (as defined by the Hazardous Material Identification System (HMIS) or National Fire Protection Association (NFPA) System);

8.2.2.6 When Class IIIb or IV laser devices are in operation; use of Class I-IIIa devices is allowed if all personnel, including all minors, are wearing appropriate PPE for laser exposure.

8.2.2.7 Hazards requiring special protective wear (not including latex, vinyl or nitrile gloves, goggles, face shields or dosimeter badges);

8.2.2.8 Potential presence or use of controlled substances;

8.2.2.9 Potential presence or use of select agents (as defined by the CDC); and

8.2.2.10 Work in an area where there is a known risk of exposure to infectious diseases of human or animal origin.

8.3 Minors of age 16 and 17 years may participate, if authorized in accordance with section 8.12 below, in laboratory study or work experiences that include work in non-hazardous jobs or activities. Minors of age 16 and 17 years:

8.3.1 Are prohibited from handling radioactive material source vials and must have prior written permission from the Radiation Safety Officer (RSO) at 742-3876 to use other radioactive materials, including performing contamination surveys;

8.3.2 Are prohibited from working directly with highly hazardous materials, including, but not limited to the following:

8.3.2.1 Select agents (as defined by the CDC);

8.3.2.2 Controlled substances;

8.3.2.3 Highly hazardous biological or chemical agents (as defined by the TTU IBC and ILSC); or

8.3.2.4 Potentially infectious animals or agents.
8.4  Minors shall be closely and directly supervised by the sponsoring investigator.

8.4.1 All use of radioactive material by the RSO approved minor must be directly supervised by a trained adult TTU staff member at all times, including performing contamination surveys;

8.4.2 Failure to supervise the minor while using radioactivity will result in immediate suspension of the Authorized User’s Radioactive Material Sublicense.

8.5 Failure to supervise the minor while using chemical hazards will result in the immediate suspension of the laboratory’s ILSC protocols.

8.6 Failure to supervise the minor while using biological or select agents will result in the immediate suspension of the laboratory’s IBC protocols.

8.7 Failure to supervise the minor while working with animals will result in the immediate suspension of the laboratory’s IACUC protocols.

8.8 Failure to supervise the minor while working with human subjects will result in the immediate suspension of the laboratory’s IRB protocols.

8.9 Minors shall be provided with adequate and appropriate personal protective equipment, including dosimeter badges when required.

8.10 Minors shall successfully complete all required laboratory and radiation safety training, as appropriate, and any site-specific training required by the sponsoring laboratory prior to commencing work activities.

8.11 Under no circumstances will minors be allowed to work or study with or around radiation sources, biological agents, hazardous chemicals, equipment, or animals in manners that pose a risk to their health or well-being.

8.12 Supervisors overseeing hazardous work areas or laboratories are specifically responsible for the safety and compliance of all minors who are approved under institutional guidelines as employees, student, or visitors in their areas.

8.13 Authorization of a minor:

8.13.1 A parent or guardian must give written consent for minors to participate in laboratory study or work experiences, unless the minor is emancipated;
The Associate Vice President for Research (Research Integrity), sponsoring investigator, and department chairperson must also authorize the participation in writing. Authorization will be granted only for recognized TTU or other recognized sponsored educational programs;

Minors in Laboratories Consent/Signature Sheet in Appendix I shall be completed and provided by the sponsoring investigator/department or program to The Office of Research Services for approval prior to commencing the laboratory study or work experience. The original will be forwarded to the Associate Vice President for Research (Research Integrity) for final authorization and copies will be sent and kept by EH&S and the Associate Vice President for Research (Research Integrity) while the original will be returned to, and maintained by the sponsoring department/investigator.

Minors may work in office space (not located in a laboratory) under the supervision of a PI, faculty, staff or his/her agent, subject to the conditions presented in section 8.

Laboratories shall have doors for access control:

- Doors shall have a locking mechanism so that it can be secured when there are no laboratory personnel present;
- Laboratory doors shall remain shut at all times with the exception of rooms acting as distribution points for refilling of chemicals/supplies for laboratories and have a split door. In such cases the bottom half is to remain shut and the top half may remain open while distribution and refilling of chemicals/supplies is actively taking place.

Laboratories must have a sink for hand washing:

- Plumbed sinks are preferred, but if circumstance warrant, a portable sink may be used. Contact the DCHO and UCHO if a portable sink might be used;
- It is permissible to have a sink in an adjacent room such that the path of travel does not use a public area.

The laboratory shall be designed so that it can be easily cleaned. Carpets and rugs shall not be placed in laboratories;
9.4 Laboratory furniture must be capable of supporting anticipated loads and uses. Spaces between benches, cabinets, and equipment shall be accessible for cleaning:

9.4.1 Bench tops must be impervious to water and resistant to heat, organic solvents, acids, alkalis, and other chemicals;

9.4.2 Chairs used in laboratories must be covered in a non-porous material that can be easily cleaned and decontaminated with an appropriate disinfectant.

9.5 Laboratory windows that open to the exterior should be fitted with screens;

9.6 Biohazard, chemical, physical, and radiation hazard signs must be clearly posted on all doors entering the laboratory so that any reasonable person can see the sign prior to opening the door.

10 PHYSICAL HAZARDS

10.1 Large or heavy items are to be stored as close to ground level as possible to make them easier to move and prevent them from falling;

10.2 Walkways are to be unobstructed;

10.3 Trip hazards must be removed or mitigated:

10.3.1 Electrical cords and hoses that have to run along the floor must be secured to prevent trip hazards. The securing devices used for the securing electrical cords and hoses must not present a trip hazard themselves;

10.3.2 Equipment and containers that must be placed on the floor must be positioned so that they are out of the path of travel and must be highly visible.

10.4 Sharps in the laboratory need to be secured when not in use:

10.4.1 Needles must not be recapped, unless:

10.4.1.1 If there is a need to recap needles a valid written reason must be submitted to EH&S for review to determine if the circumstances warrant allowing needle recapping.

(a) Appropriate documented training must be given to each individual and documented demonstration of proficiency must be recorded;
10.4.1.2 If needles are to be kept for repeated use, the sharp end must be secured in such a manner as to prevent any accidental needle sticks.

10.5 Exits must be completely unobstructed:

10.5.1 There must be a minimum 32" clearance at the exit(s) from the laboratory.

10.6 Emergency eyewashes and safety showers must be completely unobstructed:

10.6.1 There must be no obstruction within 16" of the center of the spray from the safety shower.

10.7 Overhead storage must be at least 18" lower than the fire sprinkler head.

10.8 Chemicals must be stored in a secured location when not in use:

10.8.1 Secure locations are cabinets or shelving that should have a lip or restraining wire. Cabinets must be appropriate for the type of chemical being stored in them.

10.9 When working with energetic or potentially energetic materials, a blast shield must be in place.

10.10 Housekeeping shall be done on an ongoing basis:

10.10.1 Chemicals, empty chemical containers, boxes, and trash must be kept out of the walkways.

10.10.2 Bench tops must be free of excess storage:

10.10.2.1 Trash must not be left on bench tops;

10.10.2.2 Counters and liners that become contaminated must be cleaned or replaced as soon as practical;

10.10.2.3 Any equipment that becomes contaminated must be cleaned as soon as practical.

10.10.3 Trash must be disposed of in the proper trash receptacles.
10.11 Solvents or other chemicals that volatilize must be worked with inside a fume hood or with a localized exhaust:

10.11.1 Instrumentation that uses volatilizing chemicals should be operated in a hood or exhaust when possible:

10.11.1.1 Instrumentation that uses volatilizing chemicals that cannot be placed in a hood or use of a localized exhaust shall have all chemical containers sealed or filtered.

10.11.2 Small quantities of volatilizing chemicals may be used outside of a fume hood for routine decontamination or cleaning of equipment or work surfaces.

10.12 Horseplay is not acceptable in the laboratory.

10.13 Chemicals that present a physical hazard that is caused by a secondary event not related to direct contact (e.g. fire, explosion, corrosion of equipment, etc.) shall be handled as outlined in the SOPs in the Laboratory Safety Plan.

10.14 Gas cylinder handling and operation (see Appendix B).

11 LABORATORY SAFETY PLAN

11.1 The Laboratory Safety Plan is a document that is specific to a particular laboratory. This document is to identify potential hazards in the laboratory and give guidance for laboratory personnel in the event of an incident. The most recent version of the Laboratory Safety Plan must be available in a hard copy. This document shall at minimum contain:

11.1.1 The laboratory locations that are covered in the plan;

11.1.2 Responsible party for the laboratory locations that are covered in the plan;

11.1.3 Emergency contact information for the responsible party for the laboratory locations including the DCHO’s contact information;

11.1.4 Location of (M)SDSs, University Chemical Hygiene Plan and any other laboratory documents;

11.1.5 Rules and policies of the laboratory that are not less stringent than the CHP;

11.1.6 Identification of hazards in the laboratory;
11.1.7 Clean-up procedures in case of a spill;

11.1.8 Guidance on what to do in an case of emergency (e.g. fire, medical emergency, severe weather, etc.);

11.1.9 SOPs generated for the laboratory;

11.1.10 Acknowledgement sheet that all individuals working in the laboratory are required to sign that states they have read and understand the plan and will follow what is outlined in the plan.

11.2 Where hazardous chemicals are used in the workplace, the laboratory shall develop and carry out the provisions of a written Laboratory Safety Plan which:

11.2.1 Informs employees and students of physical and health hazards associated with hazardous chemicals in that laboratory; and

11.2.2 Discloses the Permissible Exposure Limits that employees should keep exposures below.

11.3 The Laboratory Safety Plan shall be readily available to employees, employee representatives, and regulatory agencies upon request.

11.4 The Laboratory Safety Plan shall include each of the following elements and shall indicate specific measures that the department will take to ensure laboratory employee protection:

11.4.1 Standard operating procedures incorporating safety and health considerations when laboratory work involves the use of hazardous chemicals and a waste stream analysis to determine what products are produced and how to properly dispose of them;

11.4.2 Criteria that the laboratory will use to determine and implement control measures for reducing employee exposure to hazardous chemicals including engineering controls, the use of personal protective equipment and hygiene practices giving particular attention to the selection of control measures for chemicals that are known to be extremely hazardous;

11.4.3 Requirements that laboratory hoods and other protective equipment are functioning properly and specific measures that shall be taken to ensure proper and adequate performance of such equipment;
11.4.4 Records of employee/student training;

11.4.5 The circumstances under which a particular laboratory operation, procedure, or activity shall require knowledge or presence of appropriate responder;

11.4.6 Provisions for medical consultation and medical examinations;

11.4.7 Designation of personnel responsible for implementation of the Laboratory Safety Plan; and

11.4.8 Provisions for additional employee protection for work with particularly hazardous substances. These include, but are not limited to, "select carcinogens", reproductive toxins and substances which have a high degree of acute toxicity. Specific considerations shall be given to the following provisions which shall be included where appropriate:

   11.4.8.1 Establishment of a designated area;
   11.4.8.2 Use of containment devices such as laboratory hoods or glove boxes;
   11.4.8.3 Procedures for safe removal of contaminated waste; and
   11.4.8.4 Decontamination procedures.

11.5 If dangerous activities are being conducted in the laboratory that require restricted access;

   11.5.1 A temporary sign must be posted on the door stating what activity is being conducted:

      11.5.1.1 The sign must clearly state who is conducting the experiment;
      11.5.1.2 The sign must have contact information of the individual(s) conducting the experiment;
      11.5.1.3 The sign must state the start date/time and expected stop date/time of the experiment;
      11.5.1.4 The sign must state specifically who is to have access to the laboratory;
11.5.1.5 The sign must state what additional PPE, engineering controls and precautions must be used when entering the laboratory while the experiment is in progress.

11.5.2 The UCHO, DCHO, and Departmental Chair must be notified of what activities require restricted access.

12 EMPLOYEE EXPOSURE ASSESSMENT AND MONITORING

12.1 It is University policy to perform an employee exposure assessment for hazardous chemicals regulated by OSHA. This determination is based upon the nature of the material and the conditions of use as described in Appendix G.

12.2 Exposure determination for substance specific standards:

12.2.1 Initial monitoring - The UCHO shall initiate monitoring of the employee's exposure to any substance regulated by a standard which requires monitoring, if there is reason to believe that exposure levels for that substance routinely exceed the action level or PEL. This may be done using the guidance in Appendix G;

12.2.2 Periodic monitoring - If the initial monitoring discloses employee exposure over the action level or PEL, the UCHO will comply with the exposure monitoring provisions of the relevant OSHA standard;

12.2.3 Termination of monitoring - Monitoring may be terminated in accordance with the relevant OSHA standard;

12.2.4 Employee notification of monitoring results - The UCHO shall, within 15 days after the receipt of any monitoring results, notify the employee of these results in writing either individually or by posting results in an appropriate location that is accessible to employees.

12.3 The person responsible for determining the need for monitoring employee exposure is the lab supervisor or Departmental Representative. The person responsible for conducting personnel sampling to monitor exposure is the UCHO.

13 FACULTY, STAFF, AND STUDENT TRAINING

13.1 PURPOSE: The purpose of this section is to outline a program of laboratory employee education and training on hazardous chemicals. A description of how employees are to be trained and the content of the training program are provided.
13.2 POLICY & ASSIGNED RESPONSIBILITIES: All laboratory employees who may be exposed to hazardous substances are to participate in the education and training program established by the department. New employees shall be informed about the Chemical Hygiene Plan and the Standard Operating Procedures by the principal investigator/laboratory supervisor.

At the time of initial assignment, a new employee shall receive the required training from the department. Refresher information shall be provided at scheduled intervals as determined by the supervisor, but at least annually. Laboratory employees will be informed about the hazards in their normal work areas as well as hazards in other areas where they may be required to work.

Whenever a new hazard is introduced into a work area, employees will be informed of the new hazard and receive the appropriate training. All personnel must be trained prior to work commencing.

13.2.1 Required trainings based on activities:

(a) Any laboratory working with chemicals or biological agents – Laboratory Safety Training through TTU EH&S (seminar or online).

(b) BSL2 laboratories – Biological Safety Training through TTU EH&S (seminar or online).

(c) Working with human blood or tissue – Bloodborne Pathogen Training through TTU EH&S (online).

(d) Working with radioactive materials – Phase I Radiation Training through TTU EH&S (online) and Phase II Radiation Safety Training through TTU EH&S (lecture).

(e) Working with radiation producing equipment – Phase I Radiation Training through TTU EH&S (online) and generation of a safety SOP for the particular piece of equipment being used to be reviewed by the TTU Radiation Safety Officer.

(f) Working with lasers – Laser Safety Training through TTU EH&S (online).

(g) Additional training may required based on agent or activities.

13.2.2 It is the PI/ Laboratory Supervisor’s responsibility to provide or ensure that everyone under their supervision is given the proper training for the operations they will be performing.
13.3 INFORMATION REQUIREMENTS: Faculty, staff, and students shall be informed of the locations of the Laboratory Safety Plan, Chemical Hygiene Plan, (M)SDSs, chemical inventory and any other relevant documents and how to use them.

13.4 TRAINING REQUIREMENTS: Faculty, staff, and student training shall include:

13.4.1 Methods and observations that may be used to detect the presence or release of a hazardous chemical (such as monitoring conducted by the department/EH&S, continuous monitoring devices, visual appearance or odor of hazardous chemicals when being released, etc.);

13.4.2 The physical and health hazards of chemicals in the work area; and

13.4.2.1 Physical hazards presented by chemicals (as distinguished from physical hazards (section 10)) Physical hazards in this sense include, but are not limited to, explosives, flammables chemicals, combustible chemicals, oxidizing chemicals, gases under pressure, self-reactive substances, pyrophoric chemicals, self-heating substances, water reactive chemicals, organic peroxides, and chemicals corrosive to metals. These agents can cause harm by triggering a secondary event not related to direct contact.

Non-laboratory personnel and visitors entering the laboratory shall be notified of physical hazards that are present in the laboratory.

(a) Training on identification of physical hazards shall be given to all who work in the laboratory. This training shall include:

(1) Identification of the physical hazards.

(2) Precautions used while handling these physical hazards such as location where agent is to be handled and the proper PPE required.

(3) Proper storage of agents to minimize physical hazards.

(4) Procedures in case of uncontrolled physical hazard release.

13.4.2.2 Health hazards presented by chemicals are acute toxicity, skin corrosion, irritation, serious eye damage or irritation, respiratory or skin sensitization, germ cell mutagenicity, carcinogenicity, reproductive
toxicology, target organ systemic toxicity from acute or chronic exposure, and aspiration hazard.

Non-laboratory personnel and visitors entering the laboratory shall be notified of health hazards that are present in the laboratory.

(a) Training on identification of health hazards shall be given to all who enter the laboratory. This training shall include:

(1) Identification of the health hazards.

(2) Precautions used while handling this health hazards such as location where agent is to be handled and the proper PPE required.

(3) Proper storage of agents to minimize health hazards.

(4) Procedures in case of release.

13.4.3 The measures employees can take to protect themselves from these hazards; including specific procedures the department has implemented to protect employees from exposure to hazardous chemicals such as appropriate work practices, emergency procedures, and personal protective equipment.

13.4.4 The employee shall be trained on the Laboratory Safety Plan and Standard Operating Procedures.

13.4.5 (M)SDSs for products which are representative of each hazard class will be discussed in detail.

13.4.6 Proper disposal of waste chemicals, to include the fact that no chemical may be disposed of in the sanitary sewer system.

14 MEDICAL CONSULTATION & EXAMINATIONS

14.1 The department shall provide all employees who work with hazardous chemicals an opportunity to receive medical attention, including any follow-up examinations which the examining physician determines to be necessary, under the following circumstances:
14.1.1 Whenever an employee develops signs or symptoms associated with a hazardous chemical to which the employee may have been exposed in the laboratory;

14.1.2 As prescribed by the particular standard where exposure monitoring reveals an exposure level routinely above the action level or PEL, for an OSHA regulated substance for which there are exposure monitoring and medical surveillance requirements;

14.1.3 If an event occurs in the work area such as a spill, leak, explosion or other occurrence resulting in the likelihood of a hazardous exposure, the affected employee shall be provided an opportunity for a medical consultation. Such consultation shall be for the purpose of determining the need for a medical examination. All medical examinations and consultations should be coordinated through Risk Management and shall be performed by or under the direct supervision of a licensed physician and shall be provided without cost to the employee, without loss of pay, and at a reasonable time and place;

14.1.4 In the event of injury or damage to property an incident report is to be filled out and submitted to the DCHO or UCHO within 24 hours.

14.2 INFORMATION PROVIDED TO THE PHYSICIAN: The lab supervisor or DCHO will fill out the "Initial Investigation of Possible Overexposure" found in Appendix H, providing copies to the examining physician and the UCHO.

14.3 PHYSICIAN'S WRITTEN OPINION: For examination or consultation required under this standard, the department shall obtain a written opinion from the examining physician. The physician shall inform the employee of the results of the examination and provide TTU with a copy. See form "Physician's Written Opinion for Medical Consultation" in Appendix H.

14.4 ROUTINE EXPOSURES OVER PEL’s FOR SUBSTANCE SPECIFIC STANDARDS

14.4.1 If air monitoring results indicate that laboratory employee exposures are above the limits prescribed in the OSHA substance specific standards, medical monitoring is provided as required in the applicable standard for the regulated substance. The person responsible for establishing the need for employee medical monitoring is the UCHO;
14.4.2 Exposure Evaluation Following an Incident: The initial evaluation of an incident for possible overexposure shall be conducted by the DCHO, who will establish the need for a medical consultation/examination.

15 HAZARD IDENTIFICATION

15.1 PURPOSE: This section outlines University policies and assigned responsibilities for labeling containers, obtaining, and maintaining (M)SDSs and implementing procedures for hazard determination of chemicals developed in the laboratory.

15.2 REQUIREMENTS

15.2.1 LABELING OF CONTAINERS: Departments shall ensure that labels on incoming containers of hazardous chemicals are not removed or defaced and that all chemicals are segregated by their hazard class (see Appendix A).

15.2.2 CHEMICALS DEVELOPED IN THE LABORATORY: The following provisions shall apply to chemical substances developed in the laboratory.

15.2.2.1 If the composition of the chemical substance which is produced exclusively for the laboratory’s use is known, the lab supervisor shall determine if it is a hazardous chemical as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200). If the chemical is determined to be hazardous, the lab supervisor shall provide appropriate training as required by this plan (see section 13 - Employee Training);

15.2.2.2 If the chemical produced is a byproduct whose composition is not known, the lab supervisor shall assume that the substance is hazardous and shall provide appropriate training as required by this plan;

15.2.2.3 If the chemical substance is produced for another user outside of the laboratory, the lab supervisor shall comply with the Hazard Communication Standard including the requirements for preparation of (M)SDSs and labeling.

15.2.3 HANDLING OF TOXINS IN THE LABORATORY: The following provisions shall apply to toxin handling in the laboratory:
15.2.3.1 When handling dry forms of toxins that are electrostatic: do not wear gloves (such as latex) that help to generate static electricity;

15.2.3.2 When handling dry forms of toxins that are electrostatic: use glove bag within a hood or biological safety cabinet, a glove box, or class III biological safety cabinet;

15.2.3.3 When handling toxins that are percutaneous hazards (irritants, necrotic to tissue, or extremely toxic from dermal exposure), select gloves that are known to be impervious to the toxin;

15.2.3.4 Consider both toxin and diluent when selecting gloves and other protective clothing;

15.2.3.5 If infectious agents and toxins are used together in an experimental system, consider both when selecting protective clothing and equipment.

15.3 INCOMING CONTAINERS: It is University policy to require that suppliers of chemical products label their materials in accordance with the OSHA Hazard Communication Standard. As a minimum; identity, hazard warnings, and the name and address of the manufacturer or importer should be found on containers of hazardous substances shipped to TTU facilities. No container will be accepted unless it is properly labeled with the required information. The DCHO and lab supervisor are responsible for ensuring that incoming containers are labeled with required information. If a container is received without the required information, the manufacturer will be required to provide properly labeled containers.

15.4 MATERIAL SAFETY DATA SHEETS: (Material) Safety Data Sheets ((M)SDSs) shall be obtained from manufacturers and/or distributors for all chemicals purchased. The manufacturers and/or distributors shall be contacted a second time if the (M)SDS is not received or is found to be incomplete. Documentation of all (M)SDS requests and re-requests shall be kept on file in the department.

15.4.1 The responsibility for obtaining, evaluating, and maintaining (M)SDSs is assigned to each individual laboratory;

15.4.2 (M)SDSs for hazardous materials shall be readily accessible to employees during each work shift;

15.4.3 The location of these (M)SDSs, along with reference materials, will be addressed in the Laboratory Safety Plan.
16 **RESPIRATOR USE**: Where the use of respirators is necessary to prevent exposure above permissible exposure limits, the department shall provide, at no cost to the employee, the proper respiratory equipment as determined by the UCHO. Respirators shall be selected and used in accordance with the requirements of 29 CFR 1910.134 and OP 60.05. Prior to use of any respiratory protective equipment, employees will:

16.1 Be deemed physically capable of wearing a respirator by a licensed physician;

16.2 Be trained in the proper use, care, cleaning, and storage of respiratory protective equipment by the EH&S department;

16.3 Be initially fit tested by EH&S for a respirator appropriate to the hazard; and

16.4 Be annually refitted to assure an adequate fit is maintained.

17 **WASTE HANDLING**

17.1 All waste must be disposed of before 90 days or three-quarter full, which ever happens first.

17.2 **ALLOWABLE CONTAINERS FOR WASTE**

17.2.1 Glass or polyethylene containers that will not corrode;

17.2.2 Containers must be triple rinsed. (Each rinse must be 1/10 the volume of the container and the rinse also collected for chemical waste disposal);

17.2.3 The original container label must be completely defaced or removed;

17.2.4 Metal cans must be used only for solvent waste that is non-corrosive.

17.3 **WASTE CONTAINER LABELS**

17.3.1 An orange “Waste” label must be affixed to the waste container. These labels can be obtained from EH&S upon request;

17.3.2 The orange “Waste” label must have accurately filled out information that includes:
17.3.2.1 Accumulation start date – This is the date that the first amount of waste was added to the container and must be entered immediately upon adding the waste to the container;

17.3.2.2 pH of contents – If known give the pH. If not known list as acidic, basic or neutral;

17.3.2.3 Each individual chemical waste added to container – This must be the full name, abbreviations or formulas are not allowed;

17.3.2.4 Building and room number;

17.3.2.5 All hazards posed by the waste collected (check all hazards that apply).

17.3.3 If chemicals are being collected to be recycled or reclaimed then a label on the container needs to be affixed that states that purpose (e.g. Xylene To Be Recycled or Xylene To Be Reclaimed).

17.4 WASTE SEPARATION

17.4.1 A waste analysis shall be conducted for all waste generated to determine its compatibility to ensure incompatible waste is not mixed:

17.4.1.1 Halogenated and Non-Halogenated waste shall be segregated from one another in separate containers;

17.4.1.2 Acids and Bases waste shall be stored in separate cabinets or areas;

17.4.1.3 Inorganic acids and organic waste shall be stored in separate cabinets or areas.

17.5 Empty chemical/reagent bottles or containers not being used for waste collection must be triple rinsed, labels completely defaced, and disposed of in the proper waste disposal receptacle.

18 SHIPPING OF HAZARDOUS MATERIALS

18.1 When hazardous materials need to be shipped the following must be done:

18.1.1 Contact and notify EH&S about the shipment;
18.1.2 The individual responsible for the shipment must have completed Hazardous Material Shipping training through EH&S;

18.1.3 Fill out the “Hazardous Material Shipping Declaration Form” on EH&S’s website (www.ehs.ttu.edu) and have a Safety Data Sheet on file with EH&S for the material being shipped;

18.1.4 All shipments must be shipped in labeled and marked containers and with paperwork meeting the requirements of the Department of Transportation 49 CFR 100-185 and the International Air Transportation Association Dangerous Goods Regulations.

19 RECORD KEEPING

19.1 The UCHO shall establish and maintain an accurate record of any measurements taken to monitor employee exposures and any medical consultation and examinations including tests or written opinions required by this plan. A record of all laboratory surveys conducted with responses, to include measurements of equipment performance, shall be maintained by the UCHO for each laboratory.

19.2 The UCHO shall assure that such records are kept, transferred, and made available in accordance with 29 CFR 1910.120.

20 LABORATORY HOOD SURVEILLANCE PROGRAM

20.1 EQUIPMENT MAINTENANCE: Hoods and other protective equipment are required to be functioning properly and specific measures shall be in place that shall be taken to ensure proper and adequate performance of such equipment. It is the responsibility of each laboratory supervisor to ensure that all laboratory employees within his or her laboratory are trained in the safe use of laboratory hoods and that they are functioning properly.

20.2 INITIAL HOOD INVENTORY: The person responsible for conducting an initial inventory of laboratory hoods within the facility is the DCHO.

20.3 SAFE OPERATING PROCEDURES FOR USE OF LABORATORY HOODS: Personnel who are required to conduct procedures within a hood should follow the safe practices outlined below:
20.3.1 Familiarize yourself with the physical and chemical properties of the materials you plan to work with by consulting the (M)SDSs and other available references;

20.3.2 Do not assume that a hood is operating properly;

20.3.3 You may check for continuous flow in the hood by using a tissue taped to the face of the hood. If there are questions about proper performance, resolve them before using the hood;

20.3.4 Based upon the hazards posed by the substances being manipulated and the results of the most recent hood survey, determine whether the hood is adequate for the work contemplated;

20.3.5 Perform all chemical manipulations at least six (6) inches inside the hood face. A line drawn on the work surface six inches inside the face can be an effective reminder;

20.3.6 Locate all laboratory equipment as far back in the hood as practical and make certain that hood exhaust slots are not blocked;

20.3.7 Elevate large pieces of equipment off the work surface (when possible) to reduce turbulence and improve airflow characteristics, thus optimizing hood performance;

20.3.8 Avoid cross drafts in front of the hood from supply air ducts or pedestrian traffic in the vicinity of the hood. Rapid movements by the user tend to disrupt the airflow into the hood and reduce the containment provided. This can be done by always working with the sash as low as possible;

20.3.9 Minimize storage in the hood to avoid impairing its effectiveness. This will also simplify spill cleanups and reduce any complications from a fire, minor explosion, or other incident;

20.3.10 Do not allow paper, disposable gloves, or other debris to be drawn into the slots at the rear of the hood. They can become trapped in the exhaust duct work and adversely affect hood performance. Hoods that are not working properly must be shut down and the UCHO notified;

20.3.11 Avoid placing your head inside the hood while performing chemical manipulations. Lowering the hood sash as low as possible to perform work
will provide some protection to the user in the event of splashes or a minor explosion;

20.3.12 If waste is being stored in fume hoods, laboratory operations, especially chemical reactions involving heat, cannot be conducted in the fume hood until it is removed;

20.3.13 When not actively working in the fume hood the sash must be fully closed.

20.4 LABORATORY HOOD MONITORING PROGRAM: An effective laboratory hood survey program requires an initial inventory, a set of criteria for evaluating hood performance, a periodic survey program, a reporting mechanism, and a designated individual responsible for reporting any hood deficiencies. Due to the size of the campus operation and the number of hoods, it is more manageable to divide them into groups by building, department or functional area for purposes of performing surveys and generating reports.

20.5 HOOD INVENTORY: An inventory of all laboratory hoods will be maintained by the UCHO based on information provided by the DCHOs.

20.6 CRITERIA FOR EVALUATING HOOD PERFORMANCE: All laboratory chemical hoods shall average 80 - 100 feet per minute of airflow across the face to be considered adequate for removing contaminants. Hoods where radioactive material is used will have an average airflow of 100-120 feet per minute.

20.7 ROUTINE HOOD PERFORMANCE SURVEYS

20.7.1 Hood face velocity surveys will be conducted annually by EH&S on those hoods not deemed to be necessary to protect an employee from exposure at a level greater than the PEL. Where calculations or sampling indicate that the hood is necessary to control exposure to below the PEL, the hood will be surveyed quarterly;

20.7.2 Calibrated airflow measuring devices capable of accurately measuring air velocity in the range of 0 to 1500 feet per minute will be used;

20.7.3 A typical hood survey procedure involves performing a multi-point traverse in the plane of sash travel. The average face velocity (the arithmetic mean of these point readings) is then calculated and recorded;

20.7.4 Additional notations or comments, such as excessive storage in the hood, sashes, or unusual individual velocity readings are noted in the remarks.
section of the survey form. All observations will be reflected in the laboratory survey report;

20.7.5 If the hood is performing to established standards, an adhesive sticker is completed, and posted on the sash of the hood at the time of the survey to avoid the need for a return visit;

20.7.6 Hood users and/or the laboratory supervisor will be notified of any unusual findings or extreme deficiencies of the hood by a posted 'out-of-service' tag on the sash of the fume hood. Physical Plant must be contacted to address the functioning of the fume hood. Once the issue with the hood is resolved EH&S needs to be notified to return to the laboratory to test the fume hood for proper operation.

21 PROCEDURE FOR LABORATORY CLOSURE

21.1 If the UCHO, DCHO, Office of the Vice President for Research, Dean or Departmental Chair deem that a laboratory or studio space must be closed for serious lack of compliance with the CHP or the Laboratory Safety Plan for the laboratory or studio space in question, the following procedure shall be followed:

21.1.1 If the laboratory or studio space is chronically and or seriously out of compliance with the practices outlined in the CHP or the Laboratory Safety Plan for the laboratory or studio space in question, the Office of the Vice President for Research, in consultation with the UCHO and DCHO, will issue a written memorandum (or email, as appropriate) to the PI and the Departmental Chair citing the reason(s) for the potential closure, and outline a timetable for redress of the compliance issues;

21.1.2 If all the issues described in section 21.1.1 are not addressed adequately (to the satisfaction of the UCHO and DCHO) in the time indicated (unless the corrections are beyond the control of the PI, in which case this should be indicated in writing to the UCHO and DCHO), the laboratory or studio space shall be closed and re-keyed until such time as the compliance issues are corrected.

21.1.3 The PI may appeal the laboratory or studio space closure procedure outlined in section 21.1 in writing to the UCHO and DCHO subsequent to the laboratory or studio space closure. The Office of the Vice President for Research, in consultation with the UCHO and DCHO, will decide the merits of the appeal and either issue a revised timetable to readdress the
21.2 Laboratories or studio space that pose an immediate danger to life or health (IDLH) situation will be closed and re-keyed. The Office of the Vice President for Research, in consultation with the UCHO and DCHO, will issue a written memorandum (or email, as appropriate) to the PI and the Department Chair citing the reason(s) for the closure, within 24 hours of the closure date.

21.3 If a laboratory or studio space has in incident where emergency services are required (e.g. ambulance, police or fire department) the laboratory or studio space will be closed until the UCHO and DCHO can perform an evaluation of the laboratory or studio space to ensure the laboratory is in compliance with the CHP and Laboratory Safety Plan for the laboratory or studio space in question.

21.3.1 If the incident occurs after normal business hours the laboratory or studio space will be closed or re-keyed until an evaluation can be performed on the next business day to determine if the laboratory or studio space is in compliance with CHP before the laboratory or studio space is returned to the department;

21.3.2 If the incident occurs during normal business hours an evaluation will be performed to determine if the the laboratory or studio space is in compliance with the CHP. If there are no issues or if issues can be resolved by the end of that work day the laboratory or studio space will not be re-keyed. If the issues are unable to be addressed that work day the laboratory or studio space will be re-keyed and will stay re-keyed until all issues have been addressed;

21.3.3 If a laboratory or studio space closure is to occur, laboratory or studio space occupants will be allowed to enter the laboratory or studio space if the environment is deemed safe by the UCHO to stop or stabilize any operations in the laboratory or studio space to ensure another incident will not occur while the laboratory or studio space is closed;

21.3.4 The laboratory or studio space will be turned back over to the department once any issues in the laboratory or studio space are resolved, the investigation into the incident is complete, and the laboratory or studio space is in compliance with the CHP and the Laboratory Safety Plan for the laboratory or studio space in question.
21.4 EH&S will offer assistance to bring the laboratory or studio space up to at least the minimal compliance in all areas.

22 REVIEWS AND UPDATES

22.1 The University Chemical Hygiene Plan will be reviewed and, if necessary, updated annually. The ILSC is responsible for initiating this review.

22.2 A list of Departmental Representatives will be updated annually by the UCHO as received by department heads.

22.3 The Departmental Representatives shall review and evaluate the effectiveness of the Chemical Hygiene Plan at least annually and forward any suggestions or updates to the UCHO for review and filing with the ILSC.
Appendix A
Texas Tech University Compatible Storage Group Classification System
Should be used in conjunction with specific storage conditions taken from the manufacturer’s label and MSDS.

Storage Groups
Store chemicals in separate secondary containment and cabinets

1. Compatible Organic Acids
2. Compatible Organic Bases
3. Non- Reactive Flammable and Combustible, including solvents
4. Not intrinsically Reactive or Flammable or Combustible
5. Compatible Oxidizers including Peroxides
6. Compatible Inorganic Bases
7. Compatible Inorganic Acids not including Oxidizers or Combustible
8. Incompatible with ALL other storage groups
9. Compatible Pyrophoric & Water Reactive Materials
10. Poison Compressed Materials
11. Compatible Explosive or other highly Unstable Material

*Storage Groups 8, 10 and 11: Consult EHS Department for specific storage - consult manufacturer’s MSDS

If space does not allow Storage Groups to be kept in separate cabinets the following scheme can be used with extra care taken to provide stable, uncrowded and carefully monitored conditions. Notice the secondary containment between each storage group.

Storage Group 8 must be segregated from all other chemicals.
Storage Group 9 is not compatible with any other storage group.
CHEMICAL SEGREGATION

Chemicals are to be segregated into 11 different categories depending on the compatibility of that chemical with other chemicals.

The Storage Groups are as follows:

Group 1 – Compatible Organic Acids
Group 2 – Compatible Organic Bases
Group 3 – Non-Reactive Flammable and Combustible, including solvents
Group 4 – Not intrinsically Reactive or Flammable or Combustible
Group 5 – Compatible Oxidizers including Peroxide
Group 6 – Compatible Inorganic Bases
Group 7 – Compatible Inorganic Acids not including Oxidizers or Combustible
Group 8 – Incompatible with ALL other storage groups
Group 9 – Compatible Pyrophoric & Water Reactive Materials
Group 10 – Poison Compressed Gases
Group 11 – Compatible Explosive or other highly Unstable Material

The following is a list of chemicals and their compatibility storage codes. This is not a complete list of chemicals, but is provided to give examples of each storage group:

**Storage Group 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-75-7</td>
<td>2,4-D (2,4-Dichlorophenoxyacetic acid)</td>
</tr>
<tr>
<td>94-82-6</td>
<td>2,4-DB</td>
</tr>
<tr>
<td>609-99-4</td>
<td>3,5-Dinitrosalicylic acid</td>
</tr>
<tr>
<td>64-19-7</td>
<td>Acetic acid (Flammable liquid @ 102F avoid alcohols, Amines, ox agents see msds)</td>
</tr>
<tr>
<td>631-61-8</td>
<td>Acetic acid, Ammonium salt (Ammonium acetate)</td>
</tr>
<tr>
<td>108-24-7</td>
<td>Acetic anhydride (Flammable liquid @102F avoid alcohols see msds)</td>
</tr>
<tr>
<td>79-10-7</td>
<td>Acrylic acid Peroxide Former</td>
</tr>
<tr>
<td>65-85-0</td>
<td>Benzoic acid</td>
</tr>
<tr>
<td>98-07-7</td>
<td>Benzotrichloride</td>
</tr>
<tr>
<td>98-88-4</td>
<td>Benzoyl chloride</td>
</tr>
<tr>
<td>107-92-6</td>
<td>Butyric Acid</td>
</tr>
<tr>
<td>115-28-6</td>
<td>Chloroacetic acid</td>
</tr>
<tr>
<td>79-11-8</td>
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**Storage Group 2**

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**Storage Group 3**

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**Storage Group 4**

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<td>57-13-6</td>
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<td>7789-09-5</td>
<td>Ammonium dichromate</td>
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<td>6484-52-2</td>
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<td>7790-98-9</td>
<td>Ammonium perchlorate</td>
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<td>Chromium (VI) oxide</td>
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### Texas Tech University Chemical Hygiene Plan

**January 2013**

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<td>17014-71-0</td>
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**Storage Group 6**

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**Storage Group 7**

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**Storage Group 8**

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<td>------------</td>
</tr>
<tr>
<td>Potassium cyanide</td>
<td>151-50-8</td>
</tr>
<tr>
<td>Propargyl alcohol</td>
<td>107-19-7</td>
</tr>
<tr>
<td>Propyl chloroformate</td>
<td>109-61-5</td>
</tr>
<tr>
<td>Red phosphorus</td>
<td>7723-14-0</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>26628-22-8</td>
</tr>
<tr>
<td>Sodium cyanide</td>
<td>143-33-9</td>
</tr>
<tr>
<td>Sodium hydrogen sulfide</td>
<td>64568-18-9</td>
</tr>
<tr>
<td>Strychnine, sulfate</td>
<td>60-41-3</td>
</tr>
<tr>
<td>Sulfur mustard (mustard gas H)</td>
<td>505-60-2</td>
</tr>
<tr>
<td>Sulfur trioxide</td>
<td>7446-11-9</td>
</tr>
<tr>
<td>Tabun</td>
<td>77-81-6</td>
</tr>
<tr>
<td>Tetraethyl lead</td>
<td>78-00-2</td>
</tr>
<tr>
<td>Toluene-2,4-diisocyanate</td>
<td>584-84-9</td>
</tr>
<tr>
<td>Toluene-2,6-diisocyanate</td>
<td>91-08-7</td>
</tr>
<tr>
<td>Toluenediisocyanate (mixed isomers)</td>
<td>26471-62-5</td>
</tr>
<tr>
<td>Trichloro(isocyanate) (mixed isomers)</td>
<td>1558-25-4</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>79-01-6</td>
</tr>
<tr>
<td>Trimethylolpropane phosphite</td>
<td>824-11-3</td>
</tr>
<tr>
<td>β-Propiolactone</td>
<td>57-57-8</td>
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**Storage Group 9**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
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<tbody>
<tr>
<td>Antimony pentafluoride</td>
<td>21205-91-4</td>
</tr>
<tr>
<td>Barium</td>
<td>7783-70-2</td>
</tr>
<tr>
<td>Benzoyl chloride</td>
<td>7440-39-3</td>
</tr>
<tr>
<td>Boron trifluoride compound with methyl ether (1:1)</td>
<td>98-88-4</td>
</tr>
<tr>
<td>Calcium</td>
<td>353-42-4</td>
</tr>
<tr>
<td>Calcium carbide</td>
<td>7440-70-2</td>
</tr>
<tr>
<td>Calcium cyanamide</td>
<td>75-20-7</td>
</tr>
<tr>
<td>Lithium aluminum hydride</td>
<td>156-62-7</td>
</tr>
<tr>
<td>Lithium diisopropylamide</td>
<td>16853-85-3</td>
</tr>
<tr>
<td>Lithium hydride</td>
<td>4111-54-0</td>
</tr>
<tr>
<td>Lithium metal (e.g., in THF)</td>
<td>7580-67-8</td>
</tr>
<tr>
<td>Magnesium</td>
<td>7439-93-2</td>
</tr>
<tr>
<td>Magnesium (powder)</td>
<td>7439-95-4</td>
</tr>
<tr>
<td>Methanesulfonyl chloride</td>
<td>7439-96-5</td>
</tr>
<tr>
<td>Methyl phosphonic dichloride</td>
<td>124-63-0</td>
</tr>
<tr>
<td>Methyllithium solution (and other alkyls)</td>
<td>676-97-1</td>
</tr>
<tr>
<td>Chemical Identifier</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>17242-52-3</td>
<td>Potassium amide Peroxide Former</td>
</tr>
<tr>
<td>7440-09-7</td>
<td>Potassium metal Peroxide Former</td>
</tr>
<tr>
<td>7782-92-5</td>
<td>Sodium amide</td>
</tr>
<tr>
<td>16940-66-2</td>
<td>Sodium borohydride</td>
</tr>
<tr>
<td>7646-69-7</td>
<td>Sodium hydride</td>
</tr>
<tr>
<td>594-19-4</td>
<td>Tert-Butyllithium</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>Zinc (fume or dust)</td>
</tr>
</tbody>
</table>

**Storage Group 10**

<table>
<thead>
<tr>
<th>Chemical Identifier</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-41-7</td>
<td>Ammonia</td>
</tr>
<tr>
<td>74-83-9</td>
<td>Bromomethane</td>
</tr>
<tr>
<td>116-15-4</td>
<td>Hexafluoropropylene</td>
</tr>
<tr>
<td>7446-09-5</td>
<td>Sulfur dioxide</td>
</tr>
</tbody>
</table>

**Storage Group 11**

<table>
<thead>
<tr>
<th>Chemical Identifier</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>556-88-7</td>
<td>Nitroguanidine</td>
</tr>
<tr>
<td>288-94-8</td>
<td>Tetrazole</td>
</tr>
<tr>
<td>124-47-0</td>
<td>Urea nitrate</td>
</tr>
</tbody>
</table>
Handling and Operating of Gas Cylinders

Introduction

TTU laboratory operations require the use of compressed gases for a variety of different operations. Compressed gases present unique hazards. Depending on the particular gas, there is a potential for mechanical and chemical hazards. You must know the hazards of the compressed gas and compressed gas cylinders before using or transporting them. All individuals who work with compressed gases must read the MSDS of the agent before handling the cylinders. They must use the proper Personal Protective Equipment (PPE), if needed, when working with or handling the cylinders.

Compressed gases are contained in heavy, highly pressurized metal containers; the large amount of potential energy resulting from compression of the gas makes the cylinder a potential rocket or fragmentation bomb. Inert gases can produce conditions of oxygen depletion that could lead to asphyxiation.

Many cylinders contain pressures that are in excess of 2000 pounds per square inch. A broken valve is all it takes for the cylinder to become an unguided missile. Never deliberately breathe, or allow others to breathe any compressed gas of any type. This can cause a depletion of oxygen in the bloodstream and/or poisoning, leading to rapid suffocation and death.

General Handling and Operation

All laboratory workers must follow TTU policies for personal protection when working with compressed gases.

The figure below depicts a regulator attached to a cylinder.

- Hand, eye, body and respiratory protection should be determined prior to the use of any compressed gases.
- Cylinders with regulators usually have a number of valves, and individuals using the cylinders need to know the function of each valve before use.
- Use of safety glasses (preferably with a face shield) when handling and using compressed gases, especially when connecting and disconnecting compressed gas regulators and lines is recommended.
- All laboratory workers must be trained in proper handling of compressed gas cylinders and recorded by PI. Compressed gases must only be handled by experienced and properly trained individuals.
Laboratory workers must have proper equipment for fitting and securing a cylinder, including valves, regulators, wrenches, tubing, straps, racks, chain and clamps.

Cylinders must be kept in an upright position and must be secured with chains or straps to an immovable object.

Small cylinders must not be kept in drawers or cabinets. They must be kept in an upright position and secured with a chain or strap.

The cylinder’s valve must be closed at all times, except when in use.

Wrenches or other tools must not be used for opening and closing valves. If a valve is not working, have it inspected and fixed.

Leave the valve protection cap in place until the cylinder is secured.

Valve protection caps should remain in place until ready to withdraw gas or connected to a regulator or manifold.

Do not force connections that do not fit.

When extracting gas from a cylinder, increase the flow rate slowly and inspect the system for leaks.

All compressed gas cylinders must have safety pressure relief valves.

Use the cylinder valve for turning gas off, not the regulator.

When opening the cylinder follow these steps:

- Back off the pressure adjusting screw of the regulator to release spring force before opening the cylinder valve.
- Open the valve slowly and only with the proper regulator in place.
- Never leave pressure in a regulator when it is not in use.
- Stand with the cylinder between yourself and the regulator (cylinder valve outlet facing away) when opening the cylinder valve.
- Acetylene or other flammable gas cylinder valves should not be opened more than ½ turns of the spindle, and preferably no more than ¾ of a turn. This reduces the risk of explosion and allows for the cylinder valve to be closed quickly cutting off the gas flow.
- Do not use acetylene at operating pressures above 15 psig.
- Oxygen cylinder valves must be opened all of the way during use.

Never heat a cylinder to raise the pressure of the gas (this can defeat the safety mechanisms built in by the supplier).

Safety relief devices in the valve or on the cylinder must be free from any indication of tampering.

Laboratory workers must monitor for leaks and ensure proper labeling.

All compressed gas cylinders must regularly be inspected for corrosion, pitting, cuts, gouges, digs, bulges, neck defects, general distortion.
All compressed gas cylinders must have their contents and precautionary labeling clearly marked on their exteriors.

Empty, damaged and surplus cylinders must not be stored in the laboratory. If you have any questions, contact EH&S at 742-3876.

Never attempt to adapt fittings from one cylinder or regulator to another.

Fittings or hoses must be compatible with the gas in the cylinder.

Gases must never be transferred from one cylinder to another.

Cylinders must not impede movement through isles or prevent egress in the event of an emergency.

Never lubricate any part of the valve, cylinder, or attached equipment.

Keep the cylinders in a dry, cool and well-ventilated area.

Incompatible gas cylinders must be properly separated. Oxygen and flammable gas cylinders must be separated by a minimum of 20 feet.

When using toxic or irritating gas, the valve should only be opened while the cylinder is in a working fume hood.

Before removing a regulator from a cylinder, close the cylinder valve and release all pressure.

Label all empty cylinders with tags so that everyone will know their status. Handle empty cylinders as carefully as full ones; residual pressure can be dangerous.

In the event of a fire, call 9-911 from a campus phone or 911 from a cell phone.

Moving Cylinders

Use proper PPE when transferring or moving cylinders.

Cylinders must be in good condition before transferring.

Before moving cylinders, regulators must be removed, valves must be closed and the cap must be securely in place.

When moving a cylinder outside of the laboratory, use an approved wheeled cylinder cart.

When moving a cylinder on a wheeled cylinder cart, the cylinder must be secured to the cart with a chain or strap.

Never drag, slide or roll a cylinder.

Do not drop cylinders or strike them against each other or against other surfaces violently.

Do not use the valve cover to lift cylinders; they could be damaged and become unattached.

Preventing and Controlling Leaks

Laboratory workers must check the cylinder’s connections and hoses regularly for leaks.

Convenient ways to check for leaks include flammable gas leak detectors (for flammable gases only) or a 50% glycerin in water solution. Bubble-forming solutions and leak detectors are available commercially. Never use a flame for leak detection.
The following procedures must be used when a compressed gas cylinder leak cannot be remedied by simply tightening the valve:

- Attach a tag to the cylinder stating it is unserviceable.
- If the cylinder contains a flammable, inert, or oxidizing gas, remove it to an isolated area, away from possible ignition sources. Allow it to remain isolated until the gas has discharged, making certain that appropriate warnings have been posted.
- If the gas is corrosive, remove the cylinder to an isolated, well-ventilated area. The stream of leaking gas should be directed into an appropriate neutralizing material.
- If the gas is toxic, remove the cylinder to an isolated, well-ventilated area, but only if this is possible while maintaining personal safety. It may be necessary to evacuate the facility.
- Notify the gas supplier and follow his/her instructions as to the return of the cylinder.
- If any risk of exposure exists, call the EH&S and evacuate the area before the tank is moved.
- For major leak, all laboratory workers must evacuate the laboratory immediately, close the doors and contact EH&S at 742-3876.

**Pressure Regulator for Cylinders**

- Use the appropriate regulator for the type of tank and gas being used.
- Do not use any oil, grease, mercury or soapy water on regulator valve.
- Check that the regulator is free of foreign objects.
- Relief valves must be vented to a laboratory chemical hood or other safe location.
- Never attempt to repair a gas leak when the system is still pressurized or venting gas.
- While a cylinder is not being used, the regulator must be removed.

All personnel are required to complete the online Lab Safety Training through the Texas Tech University Environmental Health & Safety website or attend a Laboratory Safety Seminar presented by Texas Tech University Environmental Health & Safety. These trainings include an introduction to general chemical safety. Furthermore, all personnel shall read and fully adhere to this SOP when handling compressed gases.
“I have read and understand this SOP for Handling and Operating of Gas Cylinders. I agree to fully adhere to its requirements.”

<table>
<thead>
<tr>
<th>Last (Print)</th>
<th>First (Print)</th>
<th>TTU R Number</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Resources
Listed below are a few resources that can be used to find safety and health information and standards.

**National Institute for Occupational Safety and Health, (NIOSH) Department of Health and Human Services**
Web site: [www.niosh.gov](http://www.niosh.gov)

**U.S. Department of Labor, Occupational Safety & Health Administration, (OSHA) Public Affairs Office**
Web site: [www.osha.gov](http://www.osha.gov)

**Compressed Gas Association (CGA)**
Web site: [www.cganet.com](http://www.cganet.com)

**Prudent Practices in the Laboratory**
Web site: [www.nap.edu.com](http://www.nap.edu.com)
Appendix C
## Laboratory Safety Survey

### Room:

### PI:

### Date:

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Area of Interest</th>
<th>Y</th>
<th>N</th>
<th>N/A</th>
<th>COS</th>
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</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td><strong>General Lab Safety</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Biohazard signs properly posted?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Radiation signs properly posted?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Do lab personnel know MSDS location? MSDS Available?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Do lab personnel know location of the laboratory safety plan?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Is there disinfectant/absorbent materials available for spills? (spill kit)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>B</strong></td>
<td><strong>Personal Protection</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Is protective clothing available?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Is protective clothing worn?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Are gloves available?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Are gloves worn while working?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Are used gloves disposed or cleaned after removed?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Is eye protection available?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Is eye protection worn?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Respirators used by approved individuals only?</td>
<td></td>
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</tr>
<tr>
<td><strong>C</strong></td>
<td><strong>Housekeeping</strong></td>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>Are aisles free of slip, trip, and fall hazards?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Are bench tops and work areas free of excess storage and clutter?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>D</strong></td>
<td><strong>Work Practices</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Does hand washing occur after removal of gloves and before leaving the laboratory?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Are food, drink, medicine and cosmetics not stored or consumed in lab?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Is proper lab attire worn? (no shorts, open-toed shoes or cloth shoes)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Is mouth pipetting prohibited?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Are work surfaces and equipment decontaminated after any spill or splash?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Are appropriate disinfectants/neutralizers used for decontamination?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Are ignition sources kept from where flammable chemicals are used or stored?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Are pulleys, belts, and other moving parts properly guarded?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Are closed systems under heat or pressure contained behind a blast shield or in a fume hood with the sash closed?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Question</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COS</td>
</tr>
<tr>
<td>---</td>
<td>--------------------------------------------------------------------------------------------</td>
<td>---</td>
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<td>-----</td>
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</tr>
<tr>
<td>10</td>
<td>Are Dewar flasks and cold traps wrapped with screens, friction tape, or a metal jacket?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Are needles kept from being recapped?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Are sharps secured?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Are the doors to the laboratory kept closed?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Compressed Gases/DI Bottles</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COS</td>
</tr>
<tr>
<td>1</td>
<td>Are cylinders upright/secured? Are securing device in good condition?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>When cylinder is not in use or stored, are the caps in place?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Are main valves closed and the pressure regulators released when not in use?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Are flammable gases present only where there is ongoing use?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Are flammable gases separated from oxidizing agents? (20 ft Separation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Facilities</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COS</td>
</tr>
<tr>
<td>1</td>
<td>If hand sinks are available are towels and soap present?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Are laboratory floors easily cleaned? (Carpets and rugs are inappropriate)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Bench tops impervious to water and are resistant to moderate heat and disinfectants?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Is lab furniture capable of supporting anticipated loading and uses?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Are spaces between benches, cabinet, and equipment accessible for cleaning?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Chairs covered with easily cleaned (non-fabric) material?</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>7</td>
<td>Are vacuum lines equipped with traps?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Special Procedures for Carcinogens, Teratogens, and Other Highly Toxic Chemicals</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COS</td>
</tr>
<tr>
<td>1</td>
<td>Are designated work areas for these compounds present and labeled?</td>
<td></td>
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<tr>
<td>2</td>
<td>Have adequate written procedures been created for the use of these compounds?</td>
<td></td>
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</tr>
<tr>
<td>H</td>
<td>Emergency Equipment/Fire Safety</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COS</td>
</tr>
<tr>
<td>1</td>
<td>Are safety showers/eyewashes clearly visible and unobstructed?</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>2</td>
<td>Are fire extinguishers clearly visible and unobstructed?</td>
<td></td>
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<tr>
<td>3</td>
<td>Does lab staff know the location of emergency equipment?</td>
<td></td>
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<tr>
<td>4</td>
<td>Are exits and means of egress unlocked and unobstructed?</td>
<td></td>
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<tr>
<td>5</td>
<td>Is an eighteen inch vertical clearance maintained from sprinkler heads?</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>I</td>
<td>Electrical Hazards</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COS</td>
</tr>
<tr>
<td>1</td>
<td>Are electrical cords and plugs intact; not damaged or frayed and free of tape splices or repairs?</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>No more than one item plugged into an individual receptacle?</td>
<td></td>
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</tr>
<tr>
<td>3</td>
<td>Are extension cords used on a temporary basis only, not as a permanent source of electricity?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4</td>
<td>Do all electrical outlets within 6 ft. of a water source have a GFCI?</td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>Are grounded or polarized plugs unaltered?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>Waste</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COS</td>
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<td>---</td>
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</tr>
<tr>
<td>1</td>
<td>Are all cultures, stocks, and other regulated wastes decontaminated before disposal by an approved decontamination method (i.e. autoclaving, chemical?)</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>2</td>
<td>Are materials to be decontaminated outside of the immediate laboratory placed in a durable, leak proof container and closed for transport?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>3</td>
<td>Is broken glass/glass waste segregated from regular trash or other wastes?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>4</td>
<td>Are glass waste container not overfilled?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>5</td>
<td>Are only needles and other sharps disposed of in a sharps container?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>6</td>
<td>Are sharps containers not overfilled?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>K</th>
<th>Hazardous Waste Compliance</th>
<th>Y</th>
<th>N</th>
<th>N/A</th>
<th>COS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Do all waste containers have the orange EH&amp;S label?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>2</td>
<td>Are orange EH&amp;S labels correctly filled out?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>3</td>
<td>Are waste containers in good condition?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>4</td>
<td>Are waste containers capped?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>5</td>
<td>Are funnels only used while filling waste container?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>6</td>
<td>Is chemical waste kept from being disposed down the sink or in regular waste bins?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>7</td>
<td>Are wastes properly segregated?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>8</td>
<td>Is waste generated in the laboratory kept in the laboratory until pick up from EH&amp;S?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>9</td>
<td>Is waste generated by laboratory personnel under the control of the laboratory personnel that generated the waste?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>10</td>
<td>Is there not excess storage of waste?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>L</th>
<th>Hoods</th>
<th>Y</th>
<th>N</th>
<th>N/A</th>
<th>COS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Are fume hoods used for volatile, flammable, and gaseous hazards?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>2</td>
<td>Are fume hoods free of excess storage?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>3</td>
<td>Are large pieces of equipment raised to allow air flow?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>4</td>
<td>Are items placed and procedures conducted at least 6&quot; inside fume hood?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>5</td>
<td>Is there a visual indicator of fume hood flow?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>6</td>
<td>Is the fume hood sash lowered to optimum setting and closed when no one is actively working in the fume hood?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>7</td>
<td>Are operations using heated Perchloric acid performed in a Perchloric acid fume hood?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M</th>
<th>BSCs</th>
<th>Y</th>
<th>N</th>
<th>N/A</th>
<th>COS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Are BSC I/II used with non-hazardous chemical material?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>2</td>
<td>Is volatile chemical use limited in BSC?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>3</td>
<td>Are cabinets/hoods tagged with annual inspection data?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>4</td>
<td>Are laminar flow hoods used properly?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>5</td>
<td>Are laminar flow hoods tagged with annual inspection data?</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COF</td>
</tr>
<tr>
<td>N</td>
<td>Chemical Handling and Storage Safety</td>
<td>Y</td>
<td>N</td>
<td>N/A</td>
<td>COS</td>
</tr>
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<td>-----------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>1</td>
<td>Is there a current chemical inventory?</td>
<td></td>
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<tr>
<td>2</td>
<td>Has the inventory been entered in EH&amp;S Assistant?</td>
<td></td>
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<tr>
<td>3</td>
<td>Are chemical containers in good condition?</td>
<td></td>
<td></td>
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<tr>
<td>4</td>
<td>Are original chemical container labels present and legible?</td>
<td></td>
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<tr>
<td>5</td>
<td>Are all chemicals segregated by hazard class (as defined in Appendix A of the CHP)?</td>
<td></td>
<td></td>
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<tr>
<td>6</td>
<td>When present, are acids and bases stored properly?</td>
<td></td>
<td></td>
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<tr>
<td>7</td>
<td>Are secondary containers labeled properly?</td>
<td></td>
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<tr>
<td>8</td>
<td>When present, are hydrofluoric, nitric, and perchloric acids stored properly? (secondary container)</td>
<td></td>
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</tr>
<tr>
<td>9</td>
<td>Are hydrofluoric (HF) safety procedures posted and observed?</td>
<td></td>
<td></td>
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<tr>
<td>10</td>
<td>Is fresh calcium gluconate gel available where HF acid is present?</td>
<td></td>
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<tr>
<td>11</td>
<td>Is picric acid stored hydrated at all times? Is an appropriate usage log maintained?</td>
<td></td>
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<tr>
<td>12</td>
<td>Are all flammable/combustible chemicals stored in approved flammable chemical storage cabinets?</td>
<td></td>
<td></td>
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<tr>
<td>13</td>
<td>Flammable/combustible chemicals are not stored in conventional refrigerators?</td>
<td></td>
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<tr>
<td>14</td>
<td>Is the total flammable chemical storage limited to 8gal/100 ft² for sprinkled areas and 4gal/100ft² for unsprinkled areas and total of 4gal/basement labs?</td>
<td></td>
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<tr>
<td>15</td>
<td>Are chemicals stored away from intense light sources?</td>
<td></td>
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<tr>
<td>16</td>
<td>Are large chemical containers stored near the floor?</td>
<td></td>
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<tr>
<td>17</td>
<td>Are bottle carriers and/or transportation carts utilized when moving chemicals from one room to another?</td>
<td></td>
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<tr>
<td>18</td>
<td>Are peroxide and peroxide-forming compounds labeled with receipt date, open date and/or expiration date?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>19</td>
<td>Are peroxide-forming compounds checked for peroxide formation one year from date of receipt and every 6 months thereafter?</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>O</th>
<th>For Biosafety Level 2, the lab must meet the criteria of sections A-M and O.</th>
<th>Y</th>
<th>N</th>
<th>N/A</th>
<th>COS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Does the lab have proper biohazard signs posted on all entrance doors to the work area?</td>
<td></td>
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<tr>
<td>2</td>
<td>Lockable door provided for facilities that house restricted agents?</td>
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<tr>
<td>3</td>
<td>Is TTU custodial staff not allowed to enter laboratory to remove trash and/or clean?</td>
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<tr>
<td>4</td>
<td>Access to laboratory is limited when experiments are in progress?</td>
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<tr>
<td>5</td>
<td>Does hand washing occur after handling viable material and before leaving the lab?</td>
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<tr>
<td>6</td>
<td>If staff are potentially exposed to blood or bodily fluid, Blood borne Pathogen Training is required. Have all lab workers had this training?</td>
<td></td>
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<tr>
<td></td>
<td>Question</td>
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<tr>
<td>7</td>
<td>Are proficiency levels of lab workers checked? How?</td>
<td></td>
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<tr>
<td>8</td>
<td>Is there a medical surveillance program in place?</td>
<td></td>
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<tr>
<td>9</td>
<td>Does the lab have access to a copy of the CDC's most current edition of</td>
<td></td>
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<tr>
<td></td>
<td><em>Biosafety in Microbiological and Biomedical Laboratories</em>?</td>
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<tr>
<td>10</td>
<td>Does the lab have access to a copy of the NIH's most current edition of</td>
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<tr>
<td></td>
<td><em>Guidelines for Research Involving Recombinant DNA Molecules</em>?</td>
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<tr>
<td>11</td>
<td>Is there a laboratory-specific biosafety manual that includes written</td>
<td></td>
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<tr>
<td></td>
<td>laboratory procedures and written emergency plan for the laboratory?</td>
<td></td>
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<tr>
<td>12</td>
<td>Does lab equipment (refrigerator, incubator, cold rooms, freezers,</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>storage cabinets, and biosafety cabinets) have proper biohazard signage?</td>
<td></td>
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</tr>
<tr>
<td>13</td>
<td>Are labeled, non-sharps biological waste containers available?</td>
<td></td>
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<tr>
<td>14</td>
<td>Are there liquid biological waste disposal procedures in place?</td>
<td></td>
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<tr>
<td>15</td>
<td>Are pathological waste procedures in place?</td>
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<tr>
<td>16</td>
<td>Is the biological safety cabinet located away from doors, room</td>
<td></td>
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<tr>
<td></td>
<td>ventilation, heavily traveled areas, and other disruptive equipment so</td>
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<td></td>
<td>as to maintain undisturbed airflow?</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Are emergency phone numbers easily accessible?</td>
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<tr>
<td>18</td>
<td>Is there routine decontamination of equipment? (Is there a log?)?</td>
<td></td>
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</tr>
<tr>
<td>19</td>
<td>Is equipment decontaminated after a splash or spill?</td>
<td></td>
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</tr>
<tr>
<td>20</td>
<td>Is appropriate PPE worn while in the laboratory?</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>21</td>
<td>Are gloves worn when hands may contact viable materials, contaminated</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>surfaces, or equipment?</td>
<td></td>
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</tbody>
</table>
HAZARDOUS WASTE DISPOSAL

A. In any discussion of hazardous waste, addressing the concept of waste minimization is a must. Minimizing the amount of waste generated can be accomplished in a number of ways. Some are described below.

1. Surplus chemicals can be exchanged among labs, sections, or departments. This applies not only to 'virgin' materials, but to the end products of processes or experiments which could be of use to someone else.

2. Materials may be distilled to recover them to a point of usability, if not to the original user, to another user on campus. This is greatly facilitated by segregating potential wastes to the extent practical at the point of generation.

3. Substitution of a less hazardous material for one requiring special handling will not only cut disposal costs, but reduce hazards in the laboratory as well.

4. Microscale operations reduce the waste volume by proportionately reducing the amount of chemicals input for the reaction.

5. Steps must be taken to ensure faculty and staff members do not depart until all substances in their work areas are clearly marked as to contents. Compliance with the Texas Hazard Communication Act (TAC § 502) will eliminate most problems of this type, however, the cost of analysis for the identification and hazard classification of unknowns is high enough to make this a cost effective endeavor.

B. Once it has been determined that the substance can't be exchanged, recycled, or neutralized, contact EH&S to arrange for it to be picked up for entry into the waste stream. Waste pickups are made on Tuesday and Thursday of each week. Wastes should not be allowed to accumulate as this presents health and environmental hazards. When requesting EH&S to arrange for a waste pick up, you will need to enter in your request online at www.ehs.ttu.edu and have the following information available:

1. Name and telephone number of person requesting pick up
2. Department and room number where waste is located
3. Department and room number of requestor, if different than above
4. A TTU email account
5. Type of waste

6. Size of container

7. Are the containers properly labeled with an orange EH&S “Waste” sticker

8. Has the Transfer of Chemical, Bio Waste, and/or Universal Waste form been completed

9. Any other information that you feel the person picking up the waste should know.

C. EH&S has developed labels in various sizes to be affixed to each container of hazardous waste. These labels are available from EH&S at no cost. The following areas of the label shall be filled out by the generator.

Contents - List all wastes in the container. (Has to be the full name. Abbreviations and formulas are not acceptable)
Building - Your facility.
Room # - Self-explanatory.
Accumulation Start Date - The date you first placed any waste in the container.
Hazard - Check the appropriate block for the hazard(s) associated with the waste.

D. When filling out the Request for Transfer of Chemicals form, ensure that the names used in the 'Chemical Description' block match those on the waste container labels and that there is an appropriate entry in each column with the possible exception of 'Remarks' and 'Transaction Number'. The information for the 'Hazardous Characteristics' column can usually be obtained from the original container or the MSDS. If the required information can't be obtained from either of those sources or from a reference, contact EH&S for assistance. All other entries are self-explanatory.
Written procedures for work with carcinogens, mutagens, and teratogens shall include the following information, as a minimum.

1. Chemical of concern.
   a. What chemical will be used?
   b. Identify whether it is a carcinogen, a mutagen, or a teratogen.
   c. Are there other hazards associated with the chemical? i.e., corrosive, reactive, flammable, toxic, irritant.

2. Physical form of chemical.
   a. Solid, liquid, or gas?
   b. Will the form change during the process? i.e., solid placed in solution or liquid phasing into a vapor.

3. Quantity on-hand in the laboratory and the amount used in each procedure.
   a. How much is present and how is it stored?
   b. How much will be used for each repetition of the process?

4. Laboratory and specific location(s) in the lab where the chemical will be handled or used.
   a. Where will it be measured, mixed, etc.?
   b. Where will the process in which it is used take place?
   c. Are these areas clearly marked?
   d. Is the laboratory posted?

5. Administrative controls employed to limit exposure.
   a. Will all lab workers be using/handling it?
   b. Will all lab workers be present when it is used/handled?

6. Engineering controls employed to limit exposure.
   a. Will the use/handling be done in a hood?
   b. Will the process take place in a hood?

7. Personal protective equipment (PPE) employed to limit exposure.
   a. Will lab workers be wearing gloves, goggles, face shield, etc.?
   b. Is the PPE on hand appropriate for this chemical?

8. Laboratory security measures.
a. Are non-essential personnel barred from the lab when operations with this chemical take place?
b. Is the storage location for the chemical secure?

9. Medical surveillance.
a. Does an OSHA substance-specific standard regarding this chemical exist?
b. Has EH&S performed exposure monitoring that indicates surveillance is necessary?

10. Informed consent.
a. Has every worker in the laboratory been made aware of all the hazards associated with this chemical?
b. Have all been trained regarding the necessity of the exposure control portions of this procedure and the potential consequences of failure to comply?
c. Is the training documented and acknowledged by signatures of the lab workers?

Include any other information or procedures specific to this chemical or laboratory that may have a bearing on the safety and health of lab workers.
Procedures for work with Carcinogens, Mutagens, and Teratogens

- It is the responsibility of the lab workers to be aware of hazards associated with any chemical they use. Information is available from Material Safety Data Sheets found in ______________.
- All new workers in the laboratory who will work with carcinogens, mutagens, and teratogens will be trained by one of the following people_______________________________________.
- For any chemical used in the laboratory, the lab worker is responsible for being aware of known or suspected hazards. For each known carcinogenic, mutagenic, or teratogenic chemical to be used, the lab worker should identify these and other hazards (i.e. corrosive, reactive, flammable, toxic, irritant) based on available MSDS recommendations available in the laboratory.
- The lab worker should be aware of the physical form of the chemical and any potential phase changes during the experiment.
- The lab worker should be aware of the quantity on hand to be used.
- Opened containers of carcinogens, mutagens, and teratogens should be stored in the labeled area under the hood and used in the hood as indicated in the laboratory.
- Sealed containers of carcinogens, mutagens, and teratogens should be stored according to their hazards.
- Usage of these compounds should be limited to lab workers trained in their safe usage.
- Lab workers should wear Personal Protective Equipment (PPE) including, but not limited to gloves, lab coat, hair restraints, goggles, and any other PPE recommended by the MSDS that is deemed appropriate.
- When working with hazardous chemicals, only group members should be in the lab. To prevent unauthorized usage of chemicals, access must be limited. Access to this lab can be acquired through ____________________________.
- If OSHA monitoring is required, it should be performed by EH&S.
- Every lab worker is to receive training in the safe handling of hazardous chemicals and is to document this by signing an informed consent document.

If you have any questions, please ask ________________________________.
Appendix F
Peroxide Forming Compounds

- Acetal
- Acrylic acid
- Butadiene
- Chlorobutadiene (chloroprene)
- Chlorotrifluoroethylene
- Cumene
- Cyclohexene
- Cyclooctene
- Cyclopentene
- Diaactylene
- Dicyclopentadiene
- Diethyl ether
- Diethylene glycol dimethyl ether (diglyme)
- Dioxane (p-dioxane)
- Divinyl acetylene
- Ethyl acrylate
- Ethylene glycol dimethyl ether (glyme)
- Furan
- Isopropanol
- Isopropyl ether
- Methyl acetylene
- Methyl cyclopentane
- Methyl methacrylate
- Methyl-isobutyl ketone
- Potassium amide
- Potassium metal
- Sodium amide (Sodamide)
- Styrene
- Tetrafluoroethylene
- Tetrahydrofuran
- Tetrahydronaphthalene
- Vinyl acetate
- Vinyl chloride
- Vinyl ethers
- Vinyl pyridine
- Vinylidene chloride

It is recommended that peroxide forming chemicals be checked for the formation of peroxides or disposed of one year after opening. If peroxides are present, remove the peroxides or dispose of the chemical. These recommendations are from Stephen R. Rayburn, *The Foundations of Laboratory Safety*, 1990 and Jay A. Young, *Improving Safety in the Chemical Laboratory*, 1991.
DETECTION AND INHIBITION OF PEROXIDES

BASIC PROTOCOLS

Peroxide Test Strips

Commercially purchased test strips can be used for the detection of peroxide formation (follow the manufacturer’s instructions)

Ferrous Thiocyanate Detection Method

Ferrous thiocyanate will detect hydro peroxides with the following test:

1. Mix a solution of 5 ml of 1 % ferrous ammonium sulfate, 0.5 ml of 1 N sulfuric acid and 0.5 ml of 0.1 N ammonium thiocyanate (if necessary decolorize with a trace of zinc dust)
2. Shake with an equal quantity of the solvent to be tested.
3. If peroxides are present, a red color will develop.

Potassium Iodide Detection Method

1. Add 1 ml of a freshly prepared 10% solution of potassium iodide to 10 ml of ethyl ether in a 25 ml glass-stoppered cylinder of colorless glass protected from light (both components are clear).
2. A resulting yellow color indicates the presence of 0.005% peroxides.

Inhibition of Peroxides

1. Storage and handling under an inert atmosphere is a useful precaution.
2. Addition of 0.001 % hydroquinone, diphenylamine, polyhydroxyphenols, amino phenols or aryl amines may stabilize ethers and inhibit formation of peroxides.
3. Dowex-1© has been reported effective for inhibiting peroxide formation in ethyl ether.
4. 100 ppm of 1-naphthol is effective for peroxide inhibition in isopropyl ether.
5. Hydroquinone is effective for peroxide inhibition in Tetrahydrofuran.
6. Stannous chloride or ferrous sulfate are effective for peroxide inhibition in dioxane.

Please note that these methods are BASIC protocols. Should a researcher perform one of these methods, all safety precautions should be thoroughly researched.

Copied from Norman V. Seere in Handbook of Lab Safety
Appendix G
EXPOSURE ASSESSMENT

1. Assessment versus Monitoring - Exposure assessment is that portion of the exposure evaluation performed by the laboratory supervisor which involves a judgment based on materials being used, the manner of their use, and personal knowledge of the procedures being performed. Exposure monitoring is that portion of exposure evaluation performed by the UCHO, or other persons trained in industrial hygiene sampling techniques, which involves gathering data with direct or indirect reading instruments or equipment. Both methods evaluate employee exposure to some contaminant, with assessment being used as the screening method to determine if monitoring is necessary.

2. Assessment Procedures - An initial assessment of all laboratory procedures should be performed using the attached checklist. It may include such factors as the amounts and characteristics of the materials used, the frequency and duration of use, and the effectiveness of engineering controls and protective equipment. No exposure monitoring is indicated if laboratory employee exposures to substance(s) regulated by OSHA do not exceed the action level or PEL specified in 29 CFR 1910 subpart Z. Exposure monitoring would be indicated when there is reason to believe exposure levels for the substance(s) used in the areas indicated routinely exceed the action level or PEL.
## EXPOSURE ASSESSMENT CHECKLIST

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Is the procedure performed in a closed system?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Can the procedure be performed inside a lab hood or other containment?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Is the lab hood performing to established standards?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. If the substance is highly toxic, is it handled fewer than three times per week, for less than an hour per occurrence?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Have all employees remained free of any of the signs or symptoms associated with overexposure to the substance?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Does historical monitoring data indicate acceptable exposure levels?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Does the written procedure address required personal protective equipment, emergency equipment and actions, work practices, and housekeeping?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Is personal protective equipment appropriate to the hazard?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If you answered 'NO' to any of these questions, contact the UCHO for further evaluation to be performed.
Incident Report Form
(for reporting incidents in laboratories)

The following section is to be completed by the Person Injured/Involved in the incident:

Last Name:   First Name:   Contact Information:   Sex:   DOB:   /   / 

Part of Body Involved:   Building & Room #:   Time of Incident:   Date of Incident:   /   / 

Thoroughly describe what happened (cause of incident, location in room, type of first aid administered (if any), property damage, etc.)

First aid was administered at the time of the incident:   Y   N
Additional medical attention was offered:   Y   N   If yes, this medical attention was:   Accepted   Rejected

Signature of Person Injured/Involved in the incident:

The following section is to be completed by the Supervisor/Teaching Assistant:

Last Name:   First Name:   Department:   Class & Section (if any):

Was a safety rule violated? If yes, explain:   Y   N
Supervisor’s Contact Information:

Thoroughly describe what happened (cause of incident, response, type of first aid administered (if any), property damage, etc.)

Signature of Supervisor/Teaching Assistant:

The following section is to be completed by the Safety Coordinator/Responding Personnel:

Last Name:   First Name:   Title:   Date Reported:   /   / 

Safety Coordinator/Responding Personnel’s Actions:

Signature of Safety Coordinator/Responding Personnel:

Department Phone #:   Point of Contact Information:

Submit this form to EH&S within 48 hours of the incident:
Environmental Health & Safety, Mailstop 1090, Administrative Support Center, Rm 122.
For questions, call (806) 742-3876
Near-Miss Report Form

A near-miss is a potential hazard or incident that has not resulted in any personal injury. Unsafe conditions, unsafe work habits, improper use of equipment or use of malfunctioning equipment have the potential to cause injuries. It is everyone’s responsibility to report and correct these potential accidents/incidents immediately. Please complete this form as a means to report these near-miss situations and help prevent future incidents at Texas Tech University. Please include all applicable information.

Department: __________ Building: __________ Room #: __________ Date of Incident: __/__/____

Time of Incident: _____:______ □am □pm

Designation: □Faculty □Staff □Student □Other: __________

Check all appropriate conditions:
□ Near miss
□ Safety concern
□ Safety suggestion
□ Other: __________

Type of concern:
□ Unsafe act
□ Unsafe condition
□ Unsafe equipment
□ Unsafe use of equipment
□ Other: __________

Thoroughly describe the potential incident/hazard/concern (possible effects):

Thorough description of potential incident/hazard/concern

(Optional) Name: __________ Date Reported: __/__/____

Contact Information:

Submit this form to EH&S:
Environmental Health & Safety, Mailstop 3090, Administrative Support Center, Rm 122.
For questions or cases deemed immediately dangerous to life or health, call EH&S at (806) 742-3876.
In the case of an emergency, call 911 (9-911 from a landline)
INITIAL INVESTIGATION OF POSSIBLE OVEREXPOSURE
(To be completed by PI/Lab Supervisor/Departmental Representative)

Date of incident: ___________________________ Date of interview: ___________________________
Name of Person: ______________________________ Telephone No.: __________________________
Department: ____________________________ Immediate Supervisor: ___________________________
Name of Chemical(s) in use: __________________________

If available, attach relevant MSDS to this report.

Time and Date of Incident: ___________________________

Length of exposure (hour/minutes): ____________ Amount of Chemical involved in ounces: ____________

Control measures used at time of incident: ___________________________

Laboratory Hood or Splash Shield: ___________________________

Personal Protective Equipment: ____Gloves ____Goggles ____Face Shield ____Lab coat ____Other

Description of Incident ___________________________

________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

Witnesses: __________________________________________

________________________________________________________________________________________

Location of injuries or sites of contact, e.g. eyes, skin: ___________________________

________________________________________________________________________________________

________________________________________________________________________________________
INITIAL INVESTIGATION OF POSSIBLE OVEREXPOSURE - Page 2

Signs and symptoms developed: _____Skin irritation _____Eye irritation _________Shortness of breath
____Nausea ____Headache ____Taste ____Breath odor ____Dizziness ____Vomiting ____Pale skin
Other_______________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
Elapsed time for signs and symptoms to develop:_____________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
Are signs and symptoms same as indicated on MSDS? Yes ___  No ___ If No, specify below.
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
Monitoring Equipment Used: ____PID ____Detector tubes ____Mercury Meter ____Miran 1BX
Additional Comments:______________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

Name of Investigator _____________________________ Signature __________ Date

NOTE: This information will be provided to the examining physician.
PHYSICIAN’S WRITTEN OPINION FOR MEDICAL CONSULTATION

(To be completed by Attending Physician)

Physician’s Name: ___________________________  Employee Name: ______________________________

Company: __________________________________________  Date of Visit: ________________________

Description of incident: _________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

Result of medical examination*: ____________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

Medical examination revealed employee to be at an increased risk as a result of exposure to a hazardous
chemical in the workplace:

_____________________________________________________________________________________

_____________________________________________________________________________________

Recommended medical follow up: ____________________________________________________________

_____________________________________________________________________________________

Comments: ______________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

The above referenced employee has been informed by me of the results of this consultation and related
medical condition that may require further examination or treatment.

_________________________  ______________________________
Date   Physicians Signature

* - This written opinion shall not reveal specific findings of diagnosis unrelated to occupational exposure.
Appendix I
TEXAS TECH UNIVERSITY CHEMICAL HYGIENE PLAN
January 2013

TEXAS TECH UNIVERSITY
Minors in Laboratories Consent/Signature Sheet

Observation/Project Information

Printed Name of Minor

DOB of Minor

Printed Name of PI/Sponsor

Department

Laboratory room number(s) where observations/project will occur

Date(s) of observation/project

Personal protective equipment to be used

Summary of proposed observation/project including procedure and materials to be utilized

________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________
Sponsor Agreement

I AGREE TO SPONSOR _________________________________________________
AND BY MY SIGNATURE BELOW AGREE THAT:

- I have read, understand and will adhere to all applicable TTU policies and procedures regarding minors in research laboratories or animal facilities.
- Research Services approval must be granted before the minor may participate.
- Personal protective equipment appropriate for, and specific to, laboratory hazards will be provided.
- This minor will be supervised by this sponsoring PI at all times while in the laboratory and never left alone.
- The minor’s hours of work will comply with federal labor standard 29 CFR 570.35 “Periods and Conditions of Employment.”
- My laboratory is in full compliance with all applicable TTU safety programs, policies and regulations.
- I have completed this minor’s hazard-specific training by doing the following:

Printed name of PI/Sponsor
Signature of PI/Sponsor       Date

Printed name of PI/Sponsor’s Department Chairperson
Signature of PI/Sponsor’s Department Chairperson   Date

Minor Acknowledgement:

- I HAVE READ AND UNDERSTAND Attachment A of this document, “Potential Hazards in Research Laboratories” information sheet explaining the hazards involved in scientific research.
- I WILL ADHERE TO all applicable TTU policies and procedures regarding minors in research laboratories or animal facilities in order to protect myself and those around me from an accidental exposure.

Printed name of Minor
Signature of Minor       Date
Parent/Legal Guardian Agreement:

- I HAVE READ AND UNDERSTAND Attachment A of this document, “Potential Hazards in Research Laboratories” information sheet describing the potential risks and dangers associated with my child’s research project.
- I AGREE AND UNDERSTAND that my child’s research project may be suspended at any time, at the discretion of TTU and its officers, agents, and employees, if the safety of my child or other employees and volunteers of TTU becomes a concern.

Printed name of Parent/Legal Guardian

Signature of Parent/Legal Guardian Date

Research Services Approval:

- I have reviewed this application and to the best of my knowledge, all applicable TTU policies and procedures regarding minors in research laboratories or animal facilities have been properly addressed. I have reviewed the following specific requirements:
  - Personal protective equipment appropriate for, and specific to, laboratory hazards has been identified and provided.
  - This minor will be supervised by the sponsoring PI at all times while in the laboratory and never left alone.
  - This minor’s hours of work will comply with federal labor standards, 29 CFR 570.35 “Periods and Conditions of Employment”.
  - The hosting laboratory is in compliance with applicable TTU safety programs, policies and regulations.
  - The following general and hazardous-specific safety training for this minor has been completed:
    - Laboratory Safety Training
    - Radiation Safety Training (if minor will be working in a radiation laboratory)
    - Other applicable hazard-specific safety training (please describe)
- Reviewed by Research Services:

Printed name of Reviewer

Signature of Reviewer       Date

- Approved by Research Services

Printed name of Associate Vice President for Research

Signature of Associate Vice President for Research       Date

Distribution:

Original:  Sponsoring Department/Investigator
Copies:  Office of Research Services
         EH&S
Scientific research involves exposure to various hazards. When deciding to allow your child to participate in research projects conducted in TTU laboratories or animal facilities, you need to be aware of the potential hazards he or she may encounter. The following information provides the most common potential hazards, but is not intended to be a complete list of all potential hazards. Questions may be addressed to the minor’s specific sponsor. If you have any further questions or concerns reading this information, please contact TTU EH&S at 806-742-3876.

Definitions:

**Allergens** – substances capable of producing an allergic reaction.

**Asphyxiants** – substances such as gases or toxins that cause a decrease in oxygen concentration or an increase of carbon dioxide concentration within the body.

**Carcinogens** – substances capable of producing cancer.

**Mutagens** – agents (chemical or physical) capable of inducing genetic mutation.

**Pathogen** – bacteria, viruses, prions, fungi, and parasites capable of causing diseases.

**Recombinant material** – DNA that has been genetically engineered (altered), usually incorporating DNA from more than one species of organism.

**Transgenics** – organisms that have had genes from another organism inserted into their genes.

**Toxins** – poisonous substances produced by living organism, plants, and animals.

**Zoonotic diseases** – diseases that can be passed from animals to humans.

Potential Hazards:

Your child’s research project may involve one or more of the following potential hazards. A table is included with examples.

**Chemicals** – can be unstable, making them reactive and prone to explosion. Potential injuries include skin and eye burns, respiratory problems, allergic reactions, skin, eye, and mucous membrane irritation, and illnesses.
**Pathogens** – found in human, animal, and plant tissue can cause infections and acute or chronic illnesses.

**Recombinant material/technology** – can interact with the human body and its cell and produce potentially hazardous results.

**Mechanical/electrical equipment and instrumentation** – can cause electrocution, burns, cuts, scrapes, and injuries from pinch points. High noise levels can cause hearing loss.

**Radiation/irradiation** – can cause skin and eye damage, cellular damage, and long-term health problems.

**Animals** – can bite, scratch, kick, trample, transmit zoonotic diseases such as rabies, toxoplasmosis, pox virus, cat bite fever, rat bite fever, and various parasitic infections, or release allergens.

**Gas cylinders/compressed gasses** – gas cylinders with compressed gasses can explode or cause injury from high speed projectiles. Released gasses can cause eye, skin irritations, respiratory problems, light-headedness, fainting, and asphyxiation.

<table>
<thead>
<tr>
<th>Definition</th>
<th>Hazard</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemicals</td>
<td>Refined compounds that could be in the form of solid, liquid or gas. These may or may not be hazardous. Some compounds may have numerous hazard classifications (flammable, toxin, carcinogen, etc.)</td>
<td>Carcinogens: may cause some form of cancer with long-term exposure – usually many years in the future. Teratogens: Shown to affect the reproductive system of males and females. May cause birth defects in the developing fetus. Neurotoxins: may affect the nervous system. Flammables: will burn or explode. Reactives: will react explosively. Corrosives: will cause tissue damage with contact through inhalation, ingestion, eye exposure, skin absorption, etc. Toxins: may cause illness or death on exposure.</td>
</tr>
<tr>
<td>Compressed Gases</td>
<td>High-pressure cylinders that hold gases. These are usually large and heavy. Gas may be harmless, toxic, corrosive, or flammable</td>
<td>Physical hazard: Explosion hazard if they rupture. Asphyxiant hazard if they vent the gas to the workplace and it displaces oxygen.</td>
</tr>
<tr>
<td>Radiation/Radioactive Material</td>
<td>High energy particles (alpha and beta) or electromagnetic waves (X-rays and gamma rays).</td>
<td>Tissue &amp; organ damage with high doses.</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------------------------------------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Physical hazards</td>
<td>Hazards from noise, machinery, heat, cold, etc.</td>
<td>Tissue damage and hearing loss.</td>
</tr>
<tr>
<td>Biological Agents</td>
<td>Living organisms or products of living organisms such as Viruses, Bacteria, Fungi, Prions &amp; Parasites. Hazards from infection with these agents are organism dependent &amp; can range from mild and treatable to severe and untreatable. Classification of hazards is four groups called biological safety levels with level 1 as the least hazard &amp; level 4 as the extreme hazard</td>
<td>Level 1 – Not known to cause illness in immunocompetent individuals.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Level 2 – Mild to severe illness</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Level 3 – Severe illness and possible death.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Level 4 – Not at TTU. Severe illness with no treatment</td>
</tr>
<tr>
<td>Recombinant DNA</td>
<td>Genetically modified organisms with variations in genes within the organism.</td>
<td>Often unknown consequences once introduced to the human body.</td>
</tr>
<tr>
<td>Toxins – Microbial, Plant, Animal</td>
<td>Poisons produced by plants, living organisms or animals</td>
<td>Tissue and organ damage or death</td>
</tr>
</tbody>
</table>
TEXAS TECH UNIVERSITY
Rules for Minors Working in Laboratories and Animal Facilities

1. Never work alone in the laboratory environment without direct, immediate adult supervision from the sponsor or someone designated by the sponsor.
2. Always follow the instructions of the sponsor or laboratory supervisor.
3. Always report any accident (regardless of severity) immediately to the sponsor or laboratory supervisor.
4. Always wear appropriate personal protective equipment as directed and dispose of it appropriately. Personal protective equipment includes, but is not limited to, safety glasses, goggles, gloves, lab coats, gowns, aprons, and other face or body protection as dictated by subject hazards.
5. Always keep your hands away from your face and wash them well with soap and water after handling agents, removing gloves, and prior to leaving the laboratory area.
6. Never eat, drink, chew gum, use tobacco, apply makeup, take medicines or touch contact lenses while in the laboratory environment.
7. Always wear closed-toed shoes made of a non-absorbent material while in any laboratory.
8. Always tie long hair back to keep it from laboratory hazards.
9. Always wear clothing that reduces the amount of exposed skin. Shorts and sandals are prohibited in the laboratory. No skin shall be exposed from the waist down.
10. Always ask questions if you don’t understand the safety requirements.
Appendix J
§ 1910.1450 Occupational exposure to hazardous chemicals in laboratories.

(a) **Scope and application.**

(1) This section shall apply to all employers engaged in the laboratory use of hazardous chemicals as defined below.

(2) Where this section applies, it shall supersede, for laboratories, the requirements of all other OSHA health standards in 29 CFR part 1910, subpart Z, except as follows:

(i) For any OSHA health standard, only the requirement to limit employee exposure to the specific permissible exposure limit shall apply for laboratories, unless that particular standard states otherwise or unless the conditions of paragraph (a)(2)(iii) of this section apply.

(ii) Prohibition of eye and skin contact where specified by any OSHA health standard shall be observed.

(iii) Where the action level (or in the absence of an action level, the permissible exposure limit) is routinely exceeded for an OSHA regulated substance with exposure monitoring and medical surveillance requirements, paragraphs (d) and (g)(1)(ii) of this section shall apply.

(3) This section shall not apply to:

(i) Uses of hazardous chemicals which do not meet the definition of laboratory use, and in such cases, the employer shall comply with the relevant standard in 29 CFR part 1910, subpart Z, even if such use occurs in a laboratory.

(ii) Laboratory uses of hazardous chemicals which provide no potential for employee exposure. Examples of such conditions might include:

(A) Procedures using chemically-impregnated test media such as Dip-and-Read tests where a reagent strip is dipped into the specimen to be tested and the results are interpreted by comparing the color reaction to a color chart supplied by the manufacturer of the test strip; and

(B) Commercially prepared kits such as those used in performing pregnancy tests in which all of the reagents needed to conduct the test are contained in the kit.

(b) **Definitions—**

"Action level" means a concentration designated in 29 CFR part 1910 for a specific substance, calculated as an eight (8)-hour time-weighted average, which initiates certain required activities such as exposure monitoring and medical surveillance.

"Assistant Secretary" means the Assistant Secretary of Labor for Occupational Safety and Health, U.S. Department of Labor, or designee.
"Carcinogen" (see "select carcinogen").

"Chemical Hygiene Officer" means an employee who is designated by the employer, and who is qualified by training or experience, to provide technical guidance in the development and implementation of the provisions of the Chemical Hygiene Plan. This definition is not intended to place limitations on the position description or job classification that the designated individual shall hold within the employer’s organizational structure.

"Chemical Hygiene Plan" means a written program developed and implemented by the employer which sets forth procedures, equipment, personal protective equipment and work practices that (i) are capable of protecting employees from the health hazards presented by hazardous chemicals used in that particular workplace and (ii) meets the requirements of paragraph (e) of this section.

"Combustible liquid" means any liquid having a flashpoint at or above 100 °F (37.8 °C), but below 200 °F (93.3 °C), except any mixture having components with flashpoints of 200 °F (93.3 °C), or higher, the total volume of which make up 99 percent or more of the total volume of the mixture.

"Compressed gas" means:

(i) A gas or mixture of gases having, in a container, an absolute pressure exceeding 40 psi at 70 °F (21.1 °C); or

(ii) A gas or mixture of gases having, in a container, an absolute pressure exceeding 104 psi at 130 °F (54.4 °C) regardless of the pressure at 70 °F (21.1 °C); or

(iii) A liquid having a vapor pressure exceeding 40 psi at 100 °F (37.8 °C) as determined by ASTM D-323-72.

"Designated area" means an area which may be used for work with "select carcinogens," reproductive toxins or substances which have a high degree of acute toxicity. A designated area may be the entire laboratory, an area of a laboratory or a device such as a laboratory hood.

"Emergency" means any occurrence such as, but not limited to, equipment failure, rupture of containers or failure of control equipment which results in an uncontrolled release of a hazardous chemical into the workplace.

"Employee" means an individual employed in a laboratory workplace who may be exposed to hazardous chemicals in the course of his or her assignments.

"Explosive" means a chemical that causes a sudden, almost instantaneous release of pressure, gas, and heat when subjected to sudden shock, pressure, or high temperature.
"Flammable" means a chemical that falls into one of the following categories:

(i) "Aerosol, flammable" means an aerosol that, when tested by the method described in 16 CFR 1500.45, yields a flame protection exceeding 18 inches at full valve opening, or a flashback (a flame extending back to the valve) at any degree of valve opening:

(ii) "Gas, flammable" means:

(A) A gas that, at ambient temperature and pressure, forms a flammable mixture with air at a concentration of 13 percent by volume or less; or

(B) A gas that, at ambient temperature and pressure, forms a range of flammable mixtures with air wider than 12 percent by volume, regardless of the lower limit.

(iii) "Liquid, flammable" means any liquid having a flashpoint below 100 °F (37.8 °C), except any mixture having components with flashpoints of 100 °F (37.8 °C) or higher, the total of which make up 99 percent or more of the total volume by mixture.

(iv) "Solid, flammable" means a solid, other than a blasting agent or explosive as defined in §1910.109(a), that is liable to cause fire through friction, absorption of moisture, spontaneous chemical change, or retained heat from manufacturing or processing, or which can be ignited readily and when ignited burns so vigorously and persistently as to create a serious hazard. A chemical shall be considered to be a flammable solid if, when tested by the method described in 16 CFR 1500.44, it ignites and burns with a self-sustained flame at a rate greater than one-tenth of an inch per second along its major axis.

"Flashpoint" means the minimum temperature at which a liquid gives off a vapor in sufficient concentration to ignite when tested as follows:

(i) Tagliabue Closed Tester (See American National Standard Method of Test for Flash Point by Tag Closed Tester, Z11.24-1979 (ASTM D 56-79))-for liquids with a viscosity of less than 45 Saybolt Universal Seconds (SUS) at 100 °F (37.8 °C), that do not contain suspended solids and do not have a tendency to form a surface film under test; or

(ii) Pensky-Martens Closed Tester (see American National Standard Method of Test for Flash Point by Pensky-Nartebes Closed Testerm Z11.7-1979 (ASTM D 93-79))-for liquids with a viscosity equal to or greater than 45 SUS at 100 °F (37.8 °C), or that contain suspended solids, or that have a tendency to form a surface film under test; or
(iii) Setaflash Closed Tester (see American National Standard Method of Test for Flash Point by Setaflash Closed Tester (ASTM D 3278-78)).

Organic peroxides, which undergo autoaccelerating thermal decomposition, are excluded from any of the flashpoint determination methods specified above.

"Hazardous Chemical" means a chemical for which there is statistically significant evidence based on at least one study conducted in accordance with established scientific principles that acute or chronic health effects may occur in exposed employees. The term "health hazard" includes chemicals which are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, sensitizers, hepatotoxins, nephrotoxins, neurotoxins, agents which act on the hematopoietic systems, and agents which damage the lungs, skin, eyes, or mucous membranes.

Appendices A and B of the Hazard Communication Standard (29 CFR 1910.1200) provide further guidance in defining the scope of health hazards and determining whether or not a chemical is to be considered hazardous for purposes of this standard.

"Laboratory" means a facility where the "laboratory use of hazardous chemicals" occurs. It is a workplace where relatively small quantities of hazardous chemicals are used on a nonproduction basis.

"Laboratory Scale" means work with substances in which the containers used for reactions, transfers, and other handling of substances are designed to be easily and safely manipulated by one person. "Laboratory scale" excludes those workplaces whose function is to produce commercial quantities of materials.

"Laboratory-type hood" means a device located in a laboratory, enclosure on five sides with a moveable sash or fixed partial enclosed on the remaining side; constructed and maintained to draw air from the laboratory and to prevent or minimize the escape of air contaminants into the laboratory; and allows chemical manipulations to be conducted in the enclosure without insertion of any portion of the employee's body other than hands and arms. Walk-in hoods with adjustable sashes meet the above definition provided that the sashes are adjusted during use so that the airflow and the exhaust of air contaminants are not compromised and employees do not work inside the enclosure during the release of airborne hazardous chemicals.

"Laboratory use of hazardous chemicals" means handling or use of such chemicals in which all of the following conditions are met:

(i) Chemical manipulations are carried out on a "laboratory scale;"

(ii) Multiple chemical procedures or chemicals are used;
(iii) The procedures involved are not part of a production process, nor in any way simulate a production process; and

(iv) "Protective laboratory practices and equipment" are available and in common use to minimize the potential for employee exposure to hazardous chemicals.

"Medical consultation" means a consultation which takes place between an employee and a licensed physician for the purpose of determining what medical examinations or procedures, if any, are appropriate in cases where a significant exposure to a hazardous chemical may have taken place.

"Organic peroxide" means an organic compound that contains the bivalent-O-O-structure and which may be considered to be a structural derivative of hydrogen peroxide where one or both of the hydrogen atoms has been replaced by an organic radical.

"Oxidizer" means a chemical other than a blasting agent or explosive as defined in § 1910.109(a), that initiates or promotes combustion in other materials, thereby causing fire either of itself or through the release of oxygen or other gases.

"Physical hazard" means a chemical for which there is scientifically valid evidence that it is a combustible liquid, a compressed gas, explosive, flammable, an organic peroxide, an oxidizer, pyrophoric, unstable (reactive) or water-reactive.

"Protective laboratory practices and equipment" means those laboratory procedures, practices and equipment accepted by laboratory health and safety experts as effective, or that the employer can show to be effective, in minimizing the potential for employee exposure to hazardous chemicals.

"Reproductive toxins" means chemicals which affect the reproductive capabilities including chromosomal damage (mutations) and effects on fetuses (teratogenesis).

"Select carcinogen" means any substance which meets one of the following criteria:

(i) It is regulated by OSHA as a carcinogen; or

(ii) It is listed under the category, "known to be carcinogens," in the Annual Report on Carcinogens published by the National Toxicology Program (NTP) (latest edition); or

(iii) It is listed under Group 1 ("carcinogenic to humans") by the International Agency for Research on Cancer Monographs (IARC) (latest editions); or

(iv) It is listed in either Group 2A or 2B by IARC or under the category, "reasonably anticipated to be carcinogens" by NTP, and causes statistically significant tumor incidence in experimental animals in accordance with any of the following criteria:
(A) After inhalation exposure of 6-7 hours per day, 5 days per week, for a significant portion of a lifetime to dosages of less than 10 mg/m$^3$;

(B) After repeated skin application of less than 300 (mg/kg of body weight) per week; or

(C) After oral dosages of less than 50 mg/kg of body weight per day.

"Unstable (reactive)" means a chemical which is the pure state, or as produced or transported, will vigorously polymerize, decompose, condense, or will become self-reactive under conditions of shocks, pressure or temperature.

"Water-reactive" means a chemical that reacts with water to release a gas that is either flammable or presents a health hazard.

(c) **Permissible exposure limits.** For laboratory uses of OSHA regulated substances, the employer shall assure that laboratory employees' exposures to such substances do not exceed the permissible exposure limits specified in 29 CFR part 1910, subpart Z.

(d) **Employee exposure determination--(1) Initial monitoring.** The employer shall measure the employee's exposure to any substance regulated by a standard which requires monitoring if there is reason to believe that exposure levels for that substance routinely exceed the action level (or in the absence of an action level, the PEL).

(2) **Periodic monitoring.** If the initial monitoring prescribed by paragraph (d)(1) of this section discloses employee exposure over the action level (or in the absence of an action level, the PEL), the employer shall immediately comply with the exposure monitoring provisions of the relevant standard.

(3) **Termination of monitoring.** Monitoring may be terminated in accordance with the relevant standard.

(4) **Employee notification of monitoring results.** The employer shall, within 15 working days after the receipt of any monitoring results, notify the employee of these results in writing either individually or by posting results in an appropriate location that is accessible to employees.

(e) **Chemical hygiene plan--General.** (Appendix A of this section is non-mandatory but provides guidance to assist employers in the development of the Chemical Hygiene Plan.)

(1) Where hazardous chemicals as defined by this standard are used in the workplace, the employer shall develop and carry out the provisions of a written Chemical Hygiene Plan which is:
(i) Capable of protecting employees from health hazards associated with hazardous chemicals in that laboratory and

(ii) Capable of keeping exposures below the limits specified in paragraph (c) of this section.

(2) The Chemical Hygiene Plan shall be readily available to employees, employee representatives and, upon request, to the Assistant Secretary.

(3) The Chemical Hygiene plan shall include each of the following elements and shall indicate specific measures that the employer will take to ensure laboratory employee protection:

(i) Standard operating procedures relevant to safety and health considerations to be followed when laboratory work involves the use of hazardous chemicals;

(ii) Criteria that the employer will use to determine and implement control measures to reduce employee exposure to hazardous chemicals including engineering controls, the use of personal protective equipment and hygiene practices; particular attention shall be given to the selection of control measures for chemicals that are known to be extremely hazardous;

(iii) A requirement that fume hoods and other protective equipment are functioning properly and specific measures that shall be taken to ensure proper and adequate performance of such equipment;

(iv) Provisions for employee information and training as prescribed in paragraph (f) of this section;

(v) The circumstances under which a particular laboratory operation, procedures or activity shall require prior approval from the employer or the employer's designee before implementation;

(vi) Provisions for medical consultation and medical examinations in accordance with paragraph (g) of this section;

(vii) Designation of personnel responsible for implementation of the Chemical Hygiene plan including the assignment of a Chemical Hygiene Officer and, if appropriate, establishment of a Chemical hygiene Committee; and

(viii) Provisions for additional employee protection for work with particularly hazardous substances. These include "select carcinogens," reproductive toxins and substances which have a high degree of acute toxicity. Specific consideration shall be given to the following provisions which shall be included where appropriate;
(A) Establishment of a designated area;

(B) Use of containment devices such as fume hoods or glove boxes;

(C) Procedures for safe removal of contaminated waste; and

(D) Decontamination procedures.

(4) The employer shall review and evaluate the effectiveness of the Chemical hygiene plan at least annually and update it as necessary.

(f) Employee information and training.

(1) The employer shall provide employees with information and training to ensure that they are apprised of the hazards of chemicals present in their work area.

(2) Such information shall be provided at the time of an employee's initial assignment to a work area where hazardous chemicals are present and prior to assignments involving new exposure situations. The frequency of refresher information and training shall be determined by the employer.

(3) Information. Employees shall be informed of:

   (i) The contents of this standard and its appendices which shall be made available to employees;

   (ii) The location and availability of the employer's Chemical Hygiene Plan;

   (iii) The permissible exposure limits for OSHA regulated substances or recommended exposure limits for other hazardous chemicals where there is no applicable OSHA standard;

   (iv) Signs and symptoms associated with exposures to hazardous chemicals used in the laboratory; and

   (v) The location and availability of known reference material on the hazards, safe handling, storage and disposal of hazardous chemicals found in the laboratory including, but not limited to, material Safety Data Sheets received from the chemical supplier.

(4) Training.

   (i) Employee training shall include:

      (A) Methods and observations that may be used to detect the presence or release of a hazardous chemical (such as monitoring conducted by the
employer, continuous monitoring devices, visual appearance or odor of hazardous chemicals when being released, etc.);

(B) The physical and health hazards of chemicals in the work area; and

(C) The measures employees can take to protect themselves from these hazards, including specific procedures the employer has implemented to protect employees from exposure to hazardous chemicals, such as appropriate work practices, emergency procedures, and personal protective equipment to be used.

(ii) The employee shall be trained on the applicable details of the employer's written Chemical Hygiene Plan.

(g) Medical consultation and medical examinations.

(1) The employer shall provide all employees who work with hazardous chemicals an opportunity to receive medical attention, including any follow-up examinations which the examining physician determines to be necessary, under the following circumstances:

(i) Whenever an employee develops signs or symptoms associated with a hazardous chemical to which the employee may have been exposed in the laboratory, the employee shall be provided an opportunity to receive an appropriate medical examination.

(ii) Where exposure monitoring reveals an exposure level routinely above the action level (or in the absence of an action level, the PEL) for an OSHA regulated substance for which there are exposure monitoring and medical surveillance requirements, medical surveillance shall be established for the affected employee as prescribed by the particular standard.

(iii) Whenever an event takes place in the work area such as a spill, leak, explosion or other occurrence resulting in the likelihood of a hazardous exposure, the affected employee shall be provided an opportunity for a medical consultation. Such consultation shall be for the purpose of determining the need for a medical examination.

(2) All medical examinations and consultations shall be performed by or under the direct supervision of a licensed physician and shall be provided without cost to the employee, without loss of pay and at a reasonable time and place.

(3) Information provided to the physician. The employer shall provide the following information to the physician:
(i) The identity of the hazardous chemical(s) to which the employee may have been exposed;

(ii) A description of the conditions under which the exposure occurred including quantitative exposure data, if available; and

(iii) A description of the signs and symptoms of exposure that the employee is experiencing, if any.

(4) Physician's written opinion.

(i) For examination or consultation required under this standard, the employer shall obtain a written opinion from the examining physician which shall include the following:

(A) Any recommendation for further medical follow-up;

(B) The results of the medical examination and any associated tests;

(C) Any medical condition which may be revealed in the course of the examination which may place the employee at increased risk as a result of exposure to a hazardous chemical found in the workplace; and

(D) A statement that the employee has been informed by the physician of the results of the consultation or medical examination and any medical condition that may require further examination or treatment.

(ii) The written opinion shall not reveal specific findings of diagnoses unrelated to occupational exposure.

(h) Hazard identification.

(1) With respect to labels and material safety data sheets:

(i) Employers shall ensure that labels on incoming containers of hazardous chemicals are not removed or defaced.

(ii) Employers shall maintain any material safety data sheets that are received with incoming shipments of hazardous chemicals, and ensure that they are readily accessible to laboratory employees.

(2) The following provisions shall apply to chemical substances developed in the laboratory:

(i) If the composition of the chemical substance which is produced exclusively for the laboratory's use is known, the employer shall determine if it is a hazardous chemical as defined in paragraph (b) of this section. If the chemical is determined
to be hazardous, the employer shall provide appropriate training as required under paragraph (f) of this section.

(ii) If the chemical produced is a byproduct whose composition is not known, the employer shall assume that the substance is hazardous and shall implement paragraph (e) of this section.

(iii) If the chemical substance is produced for another user outside of the laboratory, the employer shall comply with the Hazard Communication Standard (29 CFR 1910.1200) including the requirements for preparation of material safety data sheets and labeling.

(i) **Use of respirators.** Where the use of respirators is necessary to maintain exposure below permissible exposure limits, the employer shall provide, at no cost to the employee, the proper respiratory equipment. Respirators shall be selected and used in accordance with the requirements of 29 CFR 1910.134.

(j) **Recordkeeping.**

(1) The employer shall establish and maintain for each employee an accurate record of any measurements taken to monitor employee exposures and any medical consultation and examinations including tests or written opinions required by this standard.

(2) The employer shall assure that such records are kept, transferred, and made available in accordance with 29 CFR 1910.20.

(k) **Dates**

(1) **Effective date.** This section shall become effective may 1, 1990.

(2) **Start-up dates.**

(i) Employers shall have developed and implemented a written Chemical Hygiene Plan no later than January 31, 1991.

(ii) Paragraph (a)(2) of this section shall not take effect until the employer has developed and implemented a written Chemical Hygiene Plan.
Air contaminants.

Toxic and Hazardous Substances

An employee's exposure to any substance listed in Tables Z-1, Z-2, or Z-3 of this section shall be limited in accordance with the requirements of the following paragraphs of this section.

(a) "Table Z-1." (1) "Substances with limits preceded by "C" - Ceiling Values." An employee's exposure to any substance in Table Z-1, the exposure limit of which is preceded by a "C", shall at no time exceed the exposure limit given for that substance. If instantaneous monitoring is not feasible, then the ceiling shall be assessed as a 15-minute time weighted average exposure which shall not be exceeded at any time during the working day.

(2) "Other substances" - "8-hour Time Weighted Averages." An employee's exposure to any substance in Table Z-1, the exposure limit of which is not preceded by a "C", shall not exceed the 8-hour Time Weighted Average given for that substance any 8-hour work shift of a 40-hour work week.

(b) "Table Z-2." An employee's exposure to any substance listed in Table Z-2 shall not exceed the exposure limits specified as follows:

(1) "8-hour time weighted averages." An employee's exposure to any substance listed in Table Z-2, in any 8-hour work shift of a 40-hour work week, shall not exceed the 8-hour time weighted average limit given for that substance in Table Z-2.

(2) "Acceptable ceiling concentrations." An employee's exposure to a substance listed in Table Z-2 shall not exceed at any time during an 8-hour shift the acceptable ceiling concentration limit given for the substance in the table, except for a time period, and up to a concentration not exceeding the maximum duration and concentration allowed in the column under "acceptable maximum peak above the acceptable ceiling concentration for an 8-hour shift".

(3) "Example." During an 8-hour work shift, an employee may be exposed to a concentration of Substance A (with a 10 ppm TWA, 25 ppm ceiling and 50 ppm peak) above 25 ppm (but never above 50 ppm) only for a maximum period of 10 minutes. Such exposure must be compensated by exposures to concentrations less than 10 ppm so that the cumulative exposure for the entire 8-hour work shift does not exceed a weighted average of 10 ppm.

(c) "Table Z-3." An employee's exposure to any substance listed in Table Z-3, in any 8-hour work shift of a 40-hour work week, shall not exceed the 8-hour time weighted average limit given for that substance in the table.

(d) "Computation formulae." The computation formula which shall apply to employee exposure to more than one substance for which 8-hour time weighted averages are listed in subpart Z of 29 CFR Part 1910 in order to determine whether an employee is exposed over the regulatory limit is as follows:

\[ E = \frac{C(a)T(a) + C(b)T(b) + \ldots C(n)T(n)}{8} \]

Where:
E is the equivalent exposure for the working shift.
C is the concentration during any period of time T where the concentration remains constant.
T is the duration in hours of the exposure at the concentration C.

The value of E shall not exceed the 8-hour time weighted average specified in Subpart Z or 29 CFR Part 1910 for the substance involved.

(ii) To illustrate the formula prescribed in paragraph (d)(1)(i) of this section, assume that Substance A has an 8-hour time weighted average limit of 100 ppm noted in Table Z-1. Assume that an employee is subject to the following exposure:

Two hours exposure at 150 ppm
Two hours exposure at 75 ppm
Four hours exposure at 50 ppm

Substituting this information in the formula, we have

\[
\frac{(2 \times 150 + 2 \times 75 + 4 \times 50)}{8} = 81.25 \text{ ppm}
\]

Since 81.25 ppm is less than 100 ppm, the 8-hour time weighted average limit, the exposure is acceptable.

(2)(i) in case of a mixture of air contaminants an employer shall compute the equivalent exposure as follows:

\[
E(m) = \left( \frac{C(1)}{L(1)} + \frac{C(2)}{L(2)} + \ldots + \frac{C(n)}{L(n)} \right)
\]

Where:

\[
E(m) \text{ is the equivalent exposure for the mixture.}
C \text{ is the concentration of a particular contaminant.}
L \text{ is the exposure limit for that substance specified in Subpart Z of 29 CFR Part 1910.}
\]

The value of \(E(m)\) shall not exceed unity (1).

(ii) To illustrate the formula prescribed in paragraph (d)(2)(i) of this section, consider the following exposures:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Actual concentration of 8-hour exposure (ppm)</th>
<th>8-hour TWA PEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>500</td>
<td>1,000</td>
</tr>
<tr>
<td>C</td>
<td>45</td>
<td>200</td>
</tr>
<tr>
<td>D</td>
<td>40</td>
<td>200</td>
</tr>
</tbody>
</table>

Substituting in the formula, we have:

\[
E(m) = \frac{500}{1,000} + \frac{45}{200} + \frac{40}{200} \text{ divided by 200}
\]
\[ E(m) = 0.500 + 0.225 + 0.200 \]
\[ E(m) = 0.925 \]

Since \( E(m) \) is less than unity (1), the exposure combination is within acceptable limits.

(e) To achieve compliance with paragraphs (a) through (d) of this section, administrative or engineering controls must first be determined and implemented whenever feasible. When such controls are not feasible to achieve full compliance, protective equipment or any other protective measures shall be used to keep the exposure of employees to air contaminants within the limits prescribed in this section. Any equipment and/or technical measures used for this purpose must be approved for each particular use by a competent industrial hygienist or other technically qualified person. Whenever respirators are used, their use shall comply with 1910.134.

(f) Effective dates. The exposure limits specified have been in effect with the method of compliance specified in paragraph (e) of this section since May 29, 1971.

TABLE Z-1 LIMITS FOR AIR CONTAMINANTS

NOTE: Because of the length of the table, explanatory Footnotes applicable to all substances are given below as well as at the end of the table. Footnotes specific only to a limited number of substances are also shown within the table.

Footnote(1) The PEL’s are 8-hour TWA’s unless otherwise noted; a (C) designation denotes a ceiling limit. They are to be determined from breathing-zone air samples.

Footnote(a) Parts of vapor or gas per million parts of contaminated air by volume at 25 degrees C and 760 torr.

Footnote(b) Milligrams of substance per cubic meter of air. When entry is in this column only, the value is exact; when listed with a ppm entry, it is approximate.

Footnote(c) The CAS number is for information only. Enforcement is based on the substance name. For an entry covering more than one metal compound measured as the metal, the CAS number for the metal is given - not CAS numbers for the individual compounds.

Footnote(d) The final benzene standard in 1910.1028 applies to all occupational exposures to benzene except in some circumstances the distribution and sale of fuels, sealed containers and pipelines, coke production, oil and gas drilling and production, natural gas processing, and the percentage exclusion for liquid mixtures; for the excepted subsegments, the benzene limits in Table Z-2 apply. See 1910.1028 for specific circumstances.

Footnote(e) This 8-hour TWA applies to respirable dust as measured by a vertical elutriator cotton dust sampler or equivalent instrument. The time-weighted average applies to the cotton waste processing operations of waste recycling (sorting, blending, cleaning and willowing) and garnetting. See also 1910.1043 for cotton dust limits applicable to other sectors.

Footnote(f) All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.

Footnote(2) See Table Z-2.

Footnote(3) See Table Z-3.
Footnote(4) Varies with compound.

TABLE Z-1. - LIMITS FOR AIR CONTAMINANTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>ppm (a) (1)</th>
<th>mg/m³ (b) (1)</th>
<th>Skin designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaldehyde</td>
<td>75-07-0</td>
<td>200</td>
<td>360</td>
<td></td>
</tr>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>10</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Acetic anhydride</td>
<td>108-24-7</td>
<td>5</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>1000</td>
<td>2400</td>
<td></td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>75-05-8</td>
<td>40</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>2-Acetylaminofluorene; see 1910.1014.....</td>
<td>53-96-3</td>
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<td></td>
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</tr>
<tr>
<td>Acetylene dichloride; see 1,2-Dichloroethylene.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Acetylene tetrabromide</td>
<td>79-27-6</td>
<td>1</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Acrolein</td>
<td>107-02-8</td>
<td>0.1</td>
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<td></td>
</tr>
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<td>Acrylamide</td>
<td>79-06-1</td>
<td>0.3</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Acrylonitrile</td>
<td>107-13-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aldrin</td>
<td>309-00-2</td>
<td>0.25</td>
<td>X</td>
<td></td>
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<td>Allyl alcohol</td>
<td>107-18-6</td>
<td>2</td>
<td>5</td>
<td>X</td>
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<td>Allyl chloride</td>
<td>107-05-1</td>
<td>1</td>
<td>3</td>
<td></td>
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<td>Allyl glycidyl ether. (AGE)</td>
<td>106-92-3</td>
<td>2</td>
<td>12</td>
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<tr>
<td>Allyl propyl disulfide</td>
<td>2179-59-1</td>
<td>2</td>
<td>12</td>
<td></td>
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<tr>
<td>alpha-Alumina</td>
<td>1344-28-1</td>
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<td></td>
</tr>
<tr>
<td>Total dust</td>
<td></td>
<td></td>
<td>15</td>
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<tr>
<td>Respirable fraction.</td>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Aluminum Metal (as Al).</td>
<td>7429-90-5</td>
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<td></td>
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<tr>
<td>Total dust</td>
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</tr>
<tr>
<td>Respirable fraction.</td>
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<td></td>
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<td></td>
</tr>
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<td>4-Aminodiphenyl; see 1910.1011....</td>
<td>92-67-1</td>
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<td>2-Aminoethanol; see Ethanolamine..........</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>2-Aminopyridine</td>
<td>504-29-0</td>
<td>0.5</td>
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<tr>
<td>Ammonia</td>
<td>7664-41-7</td>
<td>50</td>
<td>35</td>
<td></td>
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<tr>
<td>Ammonium sulfamate</td>
<td>7773-06-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total dust</td>
<td></td>
<td></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Respirable fraction.</td>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>n-Amyl acetate</td>
<td>628-63-7</td>
<td>100</td>
<td>525</td>
<td></td>
</tr>
<tr>
<td>sec-Amyl acetate</td>
<td>626-38-0</td>
<td>125</td>
<td>650</td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>CAS No.</td>
<td>ppm (a)(1)</td>
<td>mg/m³(b)(1)</td>
<td>Skin designation</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>---------</td>
<td>------------</td>
<td>-------------</td>
<td>-----------------</td>
</tr>
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<td>Aniline and homologs...</td>
<td>62-53-3</td>
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<td>p-Benzoquinone; see Quinone.</td>
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### TABLE Z-1. - LIMITS FOR AIR CONTAMINANTS (cont.)

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TABLE Z-1. - LIMITS FOR AIR CONTAMINANTS (cont.)

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<td>1,2-Diaminoethane; see Ethylenediamine</td>
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<td>1,2-Dibromo-3-chloropropane (CBCP); see 1910.1044</td>
<td>96-12-8</td>
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<td>Dibutyl phosphate</td>
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<td>o-Dichlorobenzene</td>
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<td>3,3′-Dichlorobenzidine; see 1910.1007</td>
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<td>2,3-Epoxy-1-propanol; see Glycidol</td>
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<td>Ethylenethiol; see Ethyl mercaptan</td>
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TABLE Z-1. - LIMITS FOR AIR CONTAMINANTS (cont.)

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<th>CAS No.</th>
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<th>mg/m³(b)(1)</th>
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### TABLE Z-1. - LIMITS FOR AIR CONTAMINANTS (cont.)

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<th>mg/m³(b)(1)</th>
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TABLE Z-1. - LIMITS FOR AIR CONTAMINANTS (cont.)

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<tr>
<td>Styrene................</td>
<td>100-42-5</td>
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<td>Sucrose.................</td>
<td>57-50-1</td>
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<tr>
<td>Total dust...........</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Respirable fraction..</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfur dioxide.........</td>
<td>7446-09-5</td>
<td>5</td>
<td>13</td>
<td></td>
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<tr>
<td>Sulfur hexafluoride....</td>
<td>2551-62-4</td>
<td>1000</td>
<td>6000</td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid..........</td>
<td>7664-93-9</td>
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<td>1</td>
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<tr>
<td>Sulfur monochloride....</td>
<td>10025-67-9</td>
<td>1</td>
<td>6</td>
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<tr>
<td>Sulfur pentafluoride...</td>
<td>5714-22-7</td>
<td>0.025</td>
<td>0.25</td>
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</tr>
<tr>
<td>Sulfonyl fluoride......</td>
<td>2699-79-8</td>
<td>5</td>
<td>20</td>
<td></td>
</tr>
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<td>Systox; see Demeton...</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4,5-T (2,4,5-tri-chlorophenoxyacetic acid).........</td>
<td>93-76-5</td>
<td></td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Talc; see Silicates...</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Tantalum, metal and oxide dust.........</td>
<td>7440-25-7</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEDP (Sulfotep).......</td>
<td>3689-24-5</td>
<td>0.2</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Tellurium and compounds (as Te)....</td>
<td>13494-80-9</td>
<td></td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Tellurium hexafluoride (as Te).........</td>
<td>7783-80-4</td>
<td>0.02</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>Temephos..............</td>
<td>3383-96-8</td>
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<td></td>
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</tr>
<tr>
<td>Total dust...........</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Respirable fraction..</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEPP (Tetraethyl pyrophosphaate)......</td>
<td>107-49-3</td>
<td>0.05</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>CAS No.</td>
<td>ppm (a)(1)</td>
<td>mg/m³(b)(1)</td>
<td>Skin designation</td>
</tr>
<tr>
<td>-----------</td>
<td>---------</td>
<td>------------</td>
<td>-------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Terphenylis.</td>
<td>26140-60-3</td>
<td>(C)1</td>
<td>(C)9</td>
<td></td>
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<tr>
<td>1,1,1,2-Tetrachloro-2, 2-difluoroethane</td>
<td>76-11-9</td>
<td>500</td>
<td>4170</td>
<td></td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloro-1, 2-difluoroethane</td>
<td>76-12-0</td>
<td>500</td>
<td>4170</td>
<td></td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloro-ethane</td>
<td>79-34-5</td>
<td>5</td>
<td>35</td>
<td>X</td>
</tr>
<tr>
<td>Tetrachloroethylene; see Perchloroethylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetrachloromethane; see Carbon tetrachloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetrachloronaphthalene</td>
<td>1335-88-2</td>
<td>2</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Tetraethyl lead (as Pb)</td>
<td>78-00-2</td>
<td>0.075</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Tetrahydrofuran</td>
<td>109-99-9</td>
<td>200</td>
<td>590</td>
<td></td>
</tr>
<tr>
<td>Tetramethyl lead, (as Pb)</td>
<td>75-74-1</td>
<td>0.075</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Tetramethyl succinonitrile</td>
<td>3333-52-6</td>
<td>0.5</td>
<td>3</td>
<td>X</td>
</tr>
<tr>
<td>Tetrantromethane</td>
<td>509-14-8</td>
<td>1</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Tetryl (2,4,6-Trinitrophenylmethyl-nitramine)</td>
<td>479-45-8</td>
<td>1.5</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Thallium, soluble compounds (as Tl)</td>
<td>7440-28-0</td>
<td>0.1</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>4,4'-Thiobis(6-tert, Butyl-m-cresol)</td>
<td>96-69-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total dust.</td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respirable fraction.</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thiram</td>
<td>137-26-8</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tin, inorganic compounds (except oxides) (as Sn)</td>
<td>7440-31-5</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tin, organic compounds (as Sn)</td>
<td>7440-31-5</td>
<td>0.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total dust.</td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>CAS No.</td>
<td>ppm (a)(1)</td>
<td>mg/m³(b)(1)</td>
<td>Skin designation</td>
</tr>
<tr>
<td>-----------</td>
<td>---------</td>
<td>------------</td>
<td>-------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Toluene-2, 4-diisocyanate (TDI).</td>
<td>584-84-9</td>
<td>(C)0.02</td>
<td>(C)0.14</td>
<td></td>
</tr>
<tr>
<td>o-Toluidine</td>
<td>95-53-4</td>
<td>5</td>
<td>22</td>
<td>X</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>126-73-8</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,1-Trichloroethane; see Methyl chloroform</td>
<td>79-00-5</td>
<td>10</td>
<td>45</td>
<td>X</td>
</tr>
<tr>
<td>1,1,2-Trichloroethane</td>
<td>79-01-6</td>
<td>1000</td>
<td>7600</td>
<td></td>
</tr>
<tr>
<td>Trichloroethane</td>
<td>1321-65-9</td>
<td>5</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2,2,3-Trichloropropane</td>
<td>96-18-4</td>
<td>50</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>1,1,2-Trichloro-1,2,2-trifluoroethane</td>
<td>76-13-1</td>
<td>1000</td>
<td>7600</td>
<td></td>
</tr>
<tr>
<td>Triethylamine</td>
<td>121-44-8</td>
<td>25</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Trifluorobromomethane</td>
<td>121-44-8</td>
<td>1000</td>
<td>6100</td>
<td></td>
</tr>
<tr>
<td>1,2,3-Trinitrobenzene; see Picric acid</td>
<td>118-96-7</td>
<td>1.5</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Triorthocresyl phosphate</td>
<td>78-30-8</td>
<td>0.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triphenyl phosphate</td>
<td>115-86-6</td>
<td>3</td>
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<td></td>
</tr>
<tr>
<td>Turpentine</td>
<td>8006-64-2</td>
<td>100</td>
<td>560</td>
<td></td>
</tr>
<tr>
<td>Uranium (as U)</td>
<td>7440-61-1</td>
<td>0.05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soluble compounds</td>
<td></td>
<td>0.05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insoluble compounds</td>
<td></td>
<td>0.05</td>
<td></td>
<td></td>
</tr>
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</table>
### TABLE Z-1. - LIMITS FOR AIR CONTAMINANTS (cont.)

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>ppm (a)(1)</th>
<th>mg/m³(b)(1)</th>
<th>Skin designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanadium</td>
<td>1314-62-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respirable dust (as V(2)O(5))...........</td>
<td></td>
<td>(C)0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fume (as V(2)O(5))...</td>
<td></td>
<td>(C)0.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vegetable oil mist.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total dust.......</td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respirable fraction..</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl benzene; see Styrene..............</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl chloride; see 1910.1017...........</td>
<td>75-01-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl cyanide; see Acrylonitrile</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl toluene...........................</td>
<td>25013-15-4</td>
<td>100</td>
<td>480</td>
<td></td>
</tr>
<tr>
<td>Warfarin</td>
<td>81-81-2</td>
<td></td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Xylenes (o-, m-, p-isomers)..</td>
<td>1330-20-7</td>
<td>100</td>
<td>435</td>
<td></td>
</tr>
<tr>
<td>Xyldine</td>
<td>1300-73-8</td>
<td>5</td>
<td>25</td>
<td>X</td>
</tr>
<tr>
<td>Yttrium</td>
<td>7440-65-5</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Zinc chloride fume........</td>
<td>7646-85-7</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc oxide fume.........................</td>
<td>1314-13-2</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc oxide..............................</td>
<td>1314-13-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total dust.......</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Respirable fraction.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Zinc stearate...........................</td>
<td>557-05-1</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Total dust.......</td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respirable fraction.</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zirconium compounds (as Zr).............</td>
<td>7440-67-7</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Footnote(1) The PELs are 8-hour TWAs unless otherwise noted; a (C) designation denotes a ceiling limit. They are to be determined from breathing-zone air samples.

Footnote(a) Parts of vapor or gas per million parts of contaminated air by volume at 25 degrees C and 760 torr.

Footnote(b) Milligrams of substance per cubic meter of air. When entry is in this column only, the value is exact; when listed with a ppm entry, it is approximate.
Footnote(c) The CAS number is for information only. Enforcement is based on the substance name. For an entry covering more than one metal compound measured as the metal, the CAS number for the metal is given - not CAS numbers for the individual compounds.

Footnote(d) The final benzene standard in 1910.1028 applies to all occupational exposures to benzene except in some circumstances the distribution and sale of fuels, sealed containers and pipelines, coke production, oil and gas drilling and production, natural gas processing, and the percentage exclusion for liquid mixtures; for the excepted subsegments, the benzene limits in Table Z-2 apply. See 1910.1028 for specific circumstances.

Footnote(e) This 8-hour TWA applies to respirable dust as measured by a vertical elutriator cotton dust sampler or equivalent instrument. The time-weighted average applies to the cotton waste processing operations of waste recycling (sorting, blending, cleaning and willowing) and garnetting. See also 1910.1043 for cotton dust limits applicable to other sectors.

Footnote(f) All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.

Footnote(2) See Table Z-2.

Footnote(3) See Table Z-3

Footnote(4) Varies with compound.
29 CFR 1910.1000 TABLE Z-2 - Toxic and Hazardous Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>8-hour time weighted average</th>
<th>Acceptable ceiling concentration</th>
<th>Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene(a) (Z37.40-1969)</td>
<td>10 ppm</td>
<td>25 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Beryllium and beryllium compounds (Z37.29-1970)</td>
<td>2 ug/m(3)</td>
<td>5 ug/m(3)</td>
<td>25 ug/m(3)</td>
</tr>
<tr>
<td>Cadmium fume(b) (Z37.5-1970)</td>
<td>0.1 mg/m(3)</td>
<td>0.3 mg/m(3)</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Cadmium dust(b) (Z37.5-1970)</td>
<td>0.2 mg/m(3)</td>
<td>0.6 mg/m(3)</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Carbon disulfide (Z37.3-1968)</td>
<td>20 ppm</td>
<td>30 ppm</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Carbon tetrachloride (Z37.17-1967)</td>
<td>10 ppm</td>
<td>25 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Chromic acid and chromates (Z37.7-1971)</td>
<td>2.5 mg/m(3)</td>
<td></td>
<td>1 mg/m(3)</td>
</tr>
<tr>
<td>Ethylene dibromide (Z37.31-1970)</td>
<td>20 ppm</td>
<td>30 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Ethylene dichloride (Z37.21-1969)</td>
<td>50 ppm</td>
<td>100 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Fluoride as dust (Z37.28-1969)</td>
<td>3 ppm</td>
<td>20 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Formaldehyde: see 1910.1048</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrogen fluoride (Z37.28-1969)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrogen sulfide (Z37.2-1966)</td>
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<td></td>
</tr>
<tr>
<td>Mercury (Z37.8-1971)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl chloride (Z37.18-1969)</td>
<td>100 ppm</td>
<td>200 ppm</td>
<td>300 ppm</td>
</tr>
<tr>
<td>Methylene chloride (Z37.23-1969)</td>
<td>500 ppm</td>
<td>1,000 ppm</td>
<td>2,000 ppm</td>
</tr>
<tr>
<td>Organo (alkyl) mercury (Z37.30-1969)</td>
<td>0.01 mg/m(3)</td>
<td>0.04 mg/m(3)</td>
<td>600 ppm</td>
</tr>
<tr>
<td>Styrene (Z37.15-1969)</td>
<td>100 ppm</td>
<td>200 ppm</td>
<td>5 minutes in any 4 hours</td>
</tr>
<tr>
<td>Tetrachloroethylene (Z37.22-1967)</td>
<td>100 ppm</td>
<td>200 ppm</td>
<td>5 minutes in any 3 hours</td>
</tr>
<tr>
<td>Toluene (Z37.12-1967)</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Trichloroethylene (Z37.19-1967)</td>
<td>100 ppm</td>
<td>200 ppm</td>
<td>5 minutes in any 2 hours</td>
</tr>
</tbody>
</table>

Footnote(a) This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028.

Footnote(b) This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect.
TABLE Z-3 Mineral Dusts

<table>
<thead>
<tr>
<th>Substance</th>
<th>mppcf&lt;sup&gt;a&lt;/sup&gt;</th>
<th>mg/m&lt;sup&gt;3&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crystalline</td>
<td>Quartz (Respirable)</td>
<td>250&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quartz (Total Dust)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amorphous, including natural diatomaceous earth</td>
<td>20</td>
<td>80 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Silicates (less than 1% crystalline silica):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mica</td>
<td>20</td>
<td>2.4 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Soapstone</td>
<td>20</td>
<td>%SiO&lt;sub&gt;2&lt;/sub&gt; + 2</td>
</tr>
<tr>
<td>Talc (not containing asbestos)</td>
<td>20&lt;sup&gt;c&lt;/sup&gt;</td>
<td>10 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Talc (containing asbestos) Use asbestos limit.</td>
<td></td>
<td>%SiO&lt;sub&gt;2&lt;/sub&gt; + 2</td>
</tr>
<tr>
<td>Tremolite, asbestiform (see 29 CFR 1910.1001)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portland cement</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Graphite (Natural)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Coal Dust:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respirable fraction less than 5% SiO&lt;sub&gt;2&lt;/sub&gt;</td>
<td></td>
<td>2.4 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Respirable fraction greater than 5% SiO&lt;sub&gt;2&lt;/sub&gt;</td>
<td></td>
<td>10 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Inert or nuisance dust:&lt;sup&gt;d&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respirable fraction</td>
<td>15</td>
<td>5 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Total dust</td>
<td>50</td>
<td>15 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

Note: Conversion factors - mppcf X 35.3 = million particles per cubic meter = particles per cc.
Footnote(a) Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques.
Footnote(b) The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable.
Footnote(c) Containing less than 1% quartz; if 1% quartz or more, use quartz limit.
Footnote(d) All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.
Footnote(e) Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size-selector with the following characteristics:
<table>
<thead>
<tr>
<th>Aerodynamic diameter (unit density sphere)</th>
<th>Percent passing selector</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>90</td>
</tr>
<tr>
<td>2.5</td>
<td>75</td>
</tr>
<tr>
<td>3.5</td>
<td>50</td>
</tr>
<tr>
<td>5.0</td>
<td>25</td>
</tr>
<tr>
<td>10</td>
<td>0</td>
</tr>
</tbody>
</table>

The measurements under this note refer to the use of an AEC (now NRC) instrument. The respirable fraction of coal dust is determined with an MRE; the figure corresponding to that of 2.4 mg/m(3) in the table for coal dust is 4.5 mg/m(3).
Appendix L
Select List of Carcinogens

(Current to January 2001)

Introduction

The following is a compilation of chemical substances listed by the International Agency for Research on Cancer (IARC); the National Toxicology Program (NTP); and the Occupational Safety & Health Administration (OSHA) that meet the OSHA definition of "Select Carcinogens."

This list is intended for use by University laboratory personnel as an aid in determining substances for which "designated use areas" will be required under the Chemical Hygiene Plan. It is important to remember that this list does not include reproductive or actue toxins and is only accurate through its current revision date.

Questions concerning this list should be directed to Environmental Health and Safety at 2-3876.

The following is a list of Chemical Names and their Sources.

A-alpha-C(2-amino-9H-pyrido(2,3-beta)indole)
IARC 2B

Acetaldehyde
IARC 2B, NTP

Acetamide
IARC 2B

2-Acetylaminofluorene
OSHA, NTP

Acrylamide
IARC 2A, NTP

Acrylonitrile
OSHA*, IARC 2A

Adriamycin
IARC 2A, NTP

AF-2(2-(2-furyl)-3-(5-nitro-2-furyl)acrylamide)
IARC 2B

Aflatoxins
IARC 1, NTP

Aflatoxin M1
IARC 2B
2-Aminoanthraquinone
NTP

para-Aminoazobenzene
IARC 2B

ortho-Aminoazotoluene
IARC 2B, NTP

4-Aminobiphenyl
IARC 1, NTP, OSHA

4-Aminodiphenyl
IARC 1, NTP, OSHA

1-Amino-2-methylanthraquinone
NTP

2-Amino-1-methyl-6-phenylimidazo-[4,5-b]pyridine (PhIP)
IARC 2B

2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole
IARC 2B

Amitrole
IARC 2B, NTP

Amsacrine
IARC 2B

Analgesic mixtures containing phenacetin
IARC 1, NTP

Androgenic (Anabolic) steroids
IARC 2A

ortho-Anisidine
IARC 2B

ortho-Anisidine hydrochloride
NTP

Antimony trioxide
IARC 2B
Aramite
IARC 2B

Arsenic and arsenic compounds
OSHA*, IARC 1, NTP

Asbestos
OSHA*, IARC 1, NTP

Auramine (Technical Grade)
IARC 2B

Azactidine
IARC 2A

Azaserine
IARC 2B

Azathioprine
IARC 1, NTP

Aziridine
IARC 2B

Benzene
OSHA*, IARC 1, NTP

Benzidine
OSHA, IARC 1, NTP

Benzidine-based dyes
IARC 2A, NTP

Benzofuran
IARC 2B

Benz[a] anthracene
IARC 2A, NTP

Benzo[b] fluoranthene
IARC 2B, NTP

Benzo[j] fluoranthene
IARC 2B, NTP
Benzo[k] fluoranthene
IARC 2B, NTP

Benzo[a] pyrene
IARC 2A, NTP

Benzotrichloride
IARC 2B, NTP

Benzyl violet 4B
IARC 2B

Beryllium & beryllium compounds
IARC 1, NTP

2,2-Bis(bromomethyl)propane-1,3-diol
IARC 2B

N,N-Bis(2-chloroethyl)-2-naphthylamine (Chlornaphazine)
IARC 1

Bischloroethyl nitrosourea (BCNU)
IARC 2A, NTP

bis(chloromethyl) ether and chloromethyl methyl ether (Technical Grade)
OSHA, IARC 1, NTP

bis(2-Ethylhexyl) Phthalate
NTP

Bitumens, extracts of steam-refined and air-refined
IARC 2B

Bleomycins
IARC 2B

Bracken fern
IARC 2B

Bromodichloromethane
IARC 2B, NTP

1,3-Butadiene
IARC 2A, NTP
1,4-butanediol dimethanesulfonate (Myleran)
IARC 1, NTP

Butylated hydroxyanisole (BHA)
IARC 2B, NTP

B-Butyrolactone
IARC 2B

Cadmium and cadmium compounds
OSHA*, IARC 1, NTP

Caffeic acid
IARC 2B

Captafol
IARC 2A

Carbon-black
IARC 2B

Carbon Tetrachloride
IARC 2B, NTP

Carrageenan, degraded
IARC 2B

Catechol
IARC 2B

Ceramic fibers (respirable size)
IARC 2B, NTP

Chlorambucil
IARC 1, NTP

Chloramphenicol
IARC 2A

para-Chloroaniline
IARC 2B

Chloroprene
IARC 2B
Chlorothalonil
IARC 2B

Chlordane
IARC 2B

Chlordecone (Kepone)
IARC 2B

Chlorendic acid
IARC 2B, NTP

Chlorinated paraffins
IARC 2B, NTP

alpha-Chlorinated toluenes
IARC 2A

1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)
IARC 2A, NTP

1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl-CCNU)
IARC 1, NTP

Chloroform
IARC 2B, NTP

1-Chloro-2-methylpropene
IARC 2B

3-Chloro-2-methylpropene
IARC 2B, NTP

Chlorophenoxy herbicides
IARC 2B

Chloroprene
NTP

4-Chloro-ortho-phenylenediamine
IARC 2B, NTP

para-Chloro-ortho-toluidine & its strong acids
IARC 2A
Chlorozotocin  
IARC 2A

Chromium compounds, hexavalent  
IARC 1, NTP

C.I. acid red 114  
IARC 2B

C.I. basic red 9 monohydrochloride  
IARC 2B, NTP

C.I. direct blue 15  
IARC 2B

C.I. disperse blue  
IARC 2B

Ciclosporin (Cylcoporin A)  
IARC 1

Cisplatin  
IARC 2A, NTP

Citrus Red No. 2  
IARC 2B

Clonorchis sinensis (infection with)  
IARC 2A

Coal-tar  
IARC 1

Coal-tar pitch volatiles  
OSHA, IARC 1

Cobalt and cobalt compounds  
IARC 2B

Coke oven emissions  
OSHA*, NTP

Creosotes  
IARC 2A
para-Cresidine  
IARC 2B, NTP  

Cupferron  
NTP  

Cycasin  
IARC 2B  

Cyclophosphamide  
IARC 1, NTP  

Dacarbazine  
IARC 2B, NTP  

Dantron (chrysazin; 1,8-dihydroxyantraquinone)  
IARC 2B  

Daunomycin  
IARC 2B  

DDT  
IARC 2B, NTP  

N,N’ Diacetylbenzidine  
IARC 2B  

2,4-Diaminoanisole  
IARC 2B  

2,4-Diaminoanisole sulfate  
NTP  

4,4’-Diaminodiphenyl ether  
IARC 2B  

2,4-Diaminotoluene  
IARC 2B, NTP  

Dibenz (a,h) acridine  
IARC 2B, NTP  

Dibenz (a,j) acridine  
IARC 2B, NTP
Dibenzo(a,h) anthracene
IARC 2A, NTP

7H-Dibenzo(c,g) carbazole
IARC 2B, NTP

Dibenzo(a,e) pyrene
IARC 2B, NTP

Dibenzo(a,h) pyrene
IARC 2B, NTP

Dibenzo(a,i) pyrene
IARC 2B, NTP

Dibenzo(a,l) pyrene
IARC 2B, NTP

1,2-Dibromo-3-chloropropane
OSHA*, IARC 2B, NTP

1,2-Dibromoethane (EBD)
IARC 2B, NTP

2,3-Dibromopropan-1-ol
IARC 2B

para-Dichlorobenzene
IARC 2B

ortho-Dichlorobenzene
IARC 2B

1,4-Dichlorobenzene
NTP

3,3'-Dichlorobenzidine & 3,3'- Dichlorobenzidine dihydrochloride
OSHA, IARC 2B, NTP

3,3'-Dichlorobenzidine (and its salts)
OSHA

3,3' Dichloro-4,4'diaminodiphenyl ether
IARC 2B
1,2-Dichloroethane
IARC 2B, NTP

Dichloromethane (Methylene chloride)
IARC 2B, NTP

1,3-Dichloropropene (technical grade)
IARC 2B, NTP

Dichlorvos
IARC 2B

Dienoestrol
IARC 1

Diepoxybutane
IARC 2B, NTP

Diesel fuel (marine)
IARC 2B

Diethyl sulfate
IARC 2A, NTP

Di(2-ethylhexyl) phthalate
IARC 2B, NTP

1,2-Diethylhydrazine
IARC 2B

Diethylstilboestrol
IARC 1, NTP

Diglycidyl resorcinol ether
IARC 2B, NTP

Dihydrosafrole
IARC 2B

Diisopropyl sulfate
IARC 2B

3,3’-Dimethoxybenzidine (ortho-dianisidine)
IARC 2B, NTP
3,3’-Dimethoxybenzidine dihydrochloride
NTP

4-Dimethylaminoazobenzene
OSHA, NTP

para-Dimethylaminoazobenzene
IARC 2B

trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole
IARC 2B

2,6-Dimethylaniline (2,6-xylidine)
IARC 2B

3,3’-Dimethylbenzidine (ortho-tolidine)
IARC 2B, NTP

Dimethylcarbamoyl chloride
IARC 2A, NTP

1,1-Dimethylhydrazine
IARC 2B, NTP

1,2-Dimethylhydrazine
IARC 2B

Dimethyl sulfate
IARC 2A, NTP

Dimethylvinyl chloride
NTP

3,7-Dinitrofluoranthene
IARC 2B

3,9-Dinitrofluoranthene
IARC 2B

1,6-Dinitropyrene
IARC 2B

1,8-Dinitropyrene
IARC 2B
2,4-Dinitrotoluene  
IARC 2B

2,6-Dinitrotoluene  
IARC 2B

1,4-Dioxane  
IARC 2B, NTP

Direct black 36  
NTP

Direct blue 6  
NTP

Disperse blue 1  
IARC 2B

Epichlorohydrin  
IARC 2A, NTP

1,2-Epoxybutane  
IARC 2B

Epstein-Barr virus  
IARC 1

Erionite  
IARC 1, NTP

Estrogens (conjugated)  
NTP

Estrogens (not conjugated) estradiol-17 beta  
NTP

Estrogens (not conjugated) estrone  
NTP

Estrogens (not conjugated) ethinylestradiol  
IARC 1, NTP

Estrogens (not conjugated) mestranol  
IARC 1, NTP
Ethanol (Oral)  
IARC 1

Ethyl acrylate  
IARC 2B

Ethylbenzene  
IARC 2B

Ethyl methanesulfonate  
IARC 2B, NTP

Ethylene dibromide  
IARC 2A, NTP

Ethylene oxide  
OSHA*, IARC 1, NTP

Ethylene thiourea  
IARC 2B, NTP

Ethyleneimine  
OSHA

N-Ethyl-N-nitrosourea  
IARC 2A

Etoposide  
IARC 2A

Etoposide [33419-42-0] in combination with cisplatin and bleomycin  
IARC 1

Formaldehyde  
OSHA*, IARC 2A, NTP

2-(2-Formylhydrazino)-4-(5-nitro-2-furyl) thiazole  
IARC 2B

Fumonisins B1 & fumonisins B2  
IARC 2B

Furan  
IARC 2B
Fusarin C  
IARC 2B

Gasoline (unleaded automobile)  
IARC 2B

Glass wool (respirable size)  
IARC 2B, NTP

Glu-P-1(2-amino-6-methylpyrido(1,2-a:3',2'-d)imidazole)  
IARC 2B

Glu-P-2(2-aminodipyrido(1,2-a:3',2'-d)imidazole)  
IARC 2B

Glycidaldehyde  
IARC 2B

Glycidol  
NTP

Griseofulvin  
IARC 2B

HC blue no. 1  
IARC 2B

Helicobacter pylori (infection with)  
IARC 1

Hepatitis B virus (chronic infection with)  
IARC 1

Hepatitis C virus (chronic infection with)  
IARC 1

Heptachlor  
IARC 2B

Hexachlorobenzene  
IARC 2B, NTP

Hexachlorocyclohexanes (lindane)  
IARC 2B
Hexachloroethane
NTP

Hexamethylphosphoramide
IARC 2B, NTP

Human immunodeficiency virus type 1 (with infection)
IARC 1

Human immunodeficiency virus type 2 (with infection)
IARC 2B

Human papillomavirus type 16
IARC 1

Human papillomavirus type 18
IARC 1

Human papillomavirus type 31
IARC 2A

Human papillomavirus type 33
IARC 2A

Human papillomavirus: some types other than 16, 18, 31, and 33
IARC 2B

Human T-cell lymphotropic virus type I
IARC 1

Hydrazine & hydrazine sulfate
IARC 2B, NTP

Hydrazobenzene
NTP

IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)
IARC 2A

Iron-dextran complex
IARC 2B, NTP

Indeno[1,2,3,-cd]pyrene
IARC 2B
Insecticides, nonarsenical (spraying & application)
IARC 2A

Isoprene
IARC 2B

Kaposi’s
IARC 2A

Kepone (chlordecone)
IARC 2B, NTP

Lasiocarpine
IARC 2B

Lead & lead compounds, inorganic
OSHA*, IARC 2B, NTP

Lindane & other hexachlorocyclohexane isomers
NTP

Magenta
IARC 2B

MeA-alpha-C[2-amino-3-methyl-9H-pyrido(2,3-beta)indole]IARC 2B

Medroxyprogesterone acetate
IARC 2B

MelQ (2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)
IARC 2B

MEIQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline
IARC 2B

Melphalan
IARC 1, NTP

Merphalan
IARC 2B

Methoxsalen with ultraviolet A therapy (PUVA)
IARC 1, NTP

5-Methoxypsoralen
IARC 2A
8-Methoxypsoralen (methoxsalen) plus ultraviolet A radiation
IARC 1

Methyl chloromethyl ether
OSHA

Methyl methanesulfonate
IARC 2B, NTP

2-Methylaziridine (Propyleneimine)
IARC 2B, NTP

Methylazoxymethanol and its acetate
IARC 2B

5-Methylchrysene
IARC 2B

4,4'Methylene bis (2-chloroaniline) (MBOCA)(MOCA)
IARC 2A, NTP

4,4'Methylene bis (N,N-dimethylbenzenamine)
NTP

4,4'Methylene bis (2-methylaniline)
IARC 2B

4,4'Methylenedianiline & its dihydrochloride
IARC 2B, NTP

Methylmercury compound
IARC 2B

2-Methyl-1-nitroantraquinone (uncertain purity)
IARC 2B

N-Methyl-N'nitro-N-nitrosoguandine (MNNG)
IARC 2A, NTP

N-Methyl-N-nitrosourea
IARC 2A

N-Methyl-N-nitrosourethane
IARC 2B
Methylthioueracil
IARC 2B

Metronidazole
IARC 2B, NTP

Michler’s ketone
NTP

Mineral oils, untreated and mildly-treated
IARC 1

Mirex
IARC 2B, NTP

Mitomycin C
IARC 2B

Mitoxantrone
IARC 2B

Monocrotaline
IARC 2B

MOPP (Combined therapy with nitrogen mustard, vincristine, procarbax prednisone) and other combined chemotherapy including alkylating agents
IARC 1

5-(Morpholinomethyl)-3-[(5-nitrofururylidene) amino]-2-oxazolidinone
IARC 2B

Mustard gas (sulfur mustard)
IARC 1, NTP

Nafenopin
IARC 2B

alpha-Naphthylamine
OSHA

beta-Naphthylamine
OSHA

2-Naphthylamine
IARC 1, NTP
Nickel & nickel compounds
IARC 1, NTP

Nickel, metallic
IARC 2B

Niridazole
IARC 2B

Nitritoltriacetic acid and its salts
IARC 2B, NTP

5-Nitroacenaphthene
IARC 2B

2-Nitroanisole
IARC 2B

Nitroarenes

1,6-Dinitropyrene
IARC 2B

1,8-Dinitropyrene
IARC 2B

6-Nitrochrysene
IARC 2B

1-Nitropyrene
IARC 2B

4-Nitropyrene
IARC 2B

Nitrobenzene
IARC 2B

4-Nitrobiphenyl
OSHA

6-Nitrochrysene
IARC 2B

Nitrofen (Technical-grade)
IARC 2B, NTP
2-Nitrofluorene
IARC 2B

1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone
IARC 2B

N-(4-(5-Nitro-2-furyl)-2-thiazolyl)acetamide
IARC 2B

Nitromethane
IARC 2B

Nitrogen mustard
IARC 2A

Nitrogen mustard hydrochloride
NTP

Nitrogen mustard N-oxide
IARC 2B

2-Nitropropane
IARC 2B, NTP

1-Nitropyrene
IARC 2B

4-Nitropyrene
IARC 2B

N-Nitroso-N-ethylurea
NTP

N-Nitroso-N-methylurea
NTP

N-Nitrosodi-n-butylamine
IARC 2B, NTP

N-Nitrosodi-n-propylamine
IARC 2B, NTP

N-Nitrosodiethanolamine
IARC 2B, NTP

N-Nitrosodiethylamine
IARC 2A, NTP
N-Nitrosodimethylamine
OSHA, IARC 2A, NTP

3-(N-Nitrosomethylamino)propionitrile
IARC 2B

4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)
IARC 2B, NTP

N-Nitrosomethyllethylamine
IARC 2B, NTP

N-Nitrosomethylvinylamine
IARC 2B, NTP

N-Nitrosomorpholine
IARC 2B, NTP

N-Nitroso-N-ethylurea
NTP

N-Nitrosonomonicotine
IARC 2B, NTP

N-Nitrosopiperidine
IARC 2B, NTP

N-Nitrosopyrrolidine
IARC 2B, NTP

N-Nitrososarcosine
IARC 2B, NTP

Nonsteroidal Oestrogens
IARC I
Norethisterone
IARC 2B, NTP

Ochratoxin A
IARC 2B, NTP

Oestradiol - 17 beta
IARC 1

Oestrogen replacement therapy
IARC 1

Oestrogens, nonsteroidal
IARC 1

Oestrogens, steroidal
IARC 1

Oil orange SS
IARC 2B

o-Nitroanisole
NTP

Opisthorchis viuerrini (infection with)
IARC 1

Oxazepam
IARC 2B

4,4'-Oxydianiline
NTP

Oxymetholone
IARC 2A, NTP

Palygorskite (attapulgite)
IARC 2B

Panfuran S (containing dihydroxymethyl-furatrizine
IARC 2B

Phenacetin
IARC 2A, NTP
Phenazopyridine hydrochloride
IARC 2B, NTP

Phenobarbital
IARC 2B

Phenolphthalein
IARC 2B

Phenoxybenzamine hydrochloride
IARC 2B, NTP

Phenyl glycidyl ether
IARC 2B

Phenytoin
IARC 2B, NTP

PhIP
IARC 2B

Polybrominated biphenyls
IARC 2B, NTP

Polychlorinated biphenyls
IARC 2A, NTP

Polychlorophenols and their sodium salts (mixed exposures)
IARC 2B

Polycyclic aromatic hydrocarbons, 15 Listings NTP
  Benz (a) anthracene
  IARC 2A, NTP
  Benzo (b) fluoranthene
  IARC 2B, NTP
  Benzo (j) fluoranthene
  IARC 2B, NTP
  Benzo (k) fluoranthene
  IARC 2B, NTP
  Benzo (a) pyrene
  IARC 2A, NTP
Dibenz (a,h) acridine  
IARC 2B, NTP

Dibenz (a,j) acridine  
IARC 2B, NTP

Dibenz (a,h) anthracene  
IARC 2A, NTP

7H-Dibenzo (c,g) carbazole  
IARC 2B, NTP

Dibenzo (a,e) pyrene  
IARC 2B, NTP

Dibenzo (a,h) pyrene  
IARC 2B, NTP

Dibenzo (a,i) pyrene  
IARC 2B, NTP

Dibenzo (a,l) pyrene  
IARC 2B, NTP

Indeno (1,2,3-cd) pyrene  
IARC 2B, NTP

5-Methylchrysene  
IARC 2B, NTP

Ponceau MX  
IARC 2B

Ponceau 3R  
IARC 2B

Potassium bromate  
IARC 2B

Procarbazine hydrochloride  
IARC 2A, NTP

Progesterone  
IARC 2B, NTP
Progestins
IARC 2B

1,3-Propane sultone
IARC 2B, NTP

beta-Propiolactone
OSHA, IARC 2B, NTP

Propylene oxide
IARC 2B, NTP

Propylthiouracil
IARC 2B, NTP

Radionuclides
IARC 1

Radon
IARC 1, NTP

Reserpine
NTP

Rockwool
IARC 2B

Saccharin
IARC 2B, NTP

Safrole
IARC 2B, NTP

Schistosoma haematobium (infection with)
IARC 1

Schistosoma japonicum (infection with)
IARC 2B

Selenium sulfide
NTP

Shale-oils
IARC 1
Silica, crystalline (respirable size)
IARC 2A, NTP

Cristobalite
NTP

Quartz
NTP

Tridymite
NTP

Slagwool
IARC 2B

Sodium ortho-phenylphenate
IARC 2B

Soots, tars and mineral oils
IARC 1, NTP

Sterigmatocystin
IARC 2B

Steriodal Oestrogens
IARC I

Streptozotocin
IARC 2B, NTP

Styrene
IARC 2B

Styrene oxide
IARC 2A

Sulfallate
IARC 2B, NTP

Sulfuric acid, strong inorganic acid mists containing
IARC 1

Tamoxifen
NTP
Talc containing asbestiform fibers
IARC 1

Tars
NTP

Teniposide
IARC 2A

2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
IARC 2B, NTP

Tetrachloroethylene (Perchloroethylene)
IARC 2A, NTP

Tetrafluoroethylene
IARC 2B

Tetranitromethane
NTP

Thioacetimide
IARC 2B, NTP

4,4′-Thiodianiline
IARC 2B

Thiotepa
IARC 1

Thiourea
IARC 2B, NTP

Thorium Dioxide
NTP

Tobacco products, smokeless
IARC 1

Tobacco smoke
IARC 1

Toluene diisocyanates
IARC 2B, NTP
Toxins derived from *Fusarium moniliforme*
IARC 2B

Ortho-Toluidine & ortho-toluidine hydro-chloride
IARC 2B, NTP

Toxaphene (polychlorinated camphenes)
IARC 2B, NTP

Treosulfan
IARC 1

Trichloroethylene
IARC 2A

Trichlormethine (trimustine hydrochloride)
IARC 2B

2,4,6-Trichlorophenol
IARC 2B, NTP

1,2,3-Trichloropropane
IARC 2A

Tris (1-aziridinyl)phosphine sulfide (thiotepa)
IARC 1, NTP

Tris (2,3-dibromopropyl)phosphate
IARC 2A, NTP

Trp-P-1 [3-amino-1,4-dimethyl-5H-pyrido[4,3-b]indole]
IARC 2B

Trp-P-2 (3-amino-1-methyl-5H-pyrido[4,3-b]indole)
IARC 2B

Trypan blue
IARC 2B

Ultraviolet radiation A
IARC 2A

Ultraviolet radiation B
IARC 2A
Ultraviolet radiation C
IARC 2A

Uracil mustard
IARC 2B

Urethane
IARC 2B, NTP

Vinyl acetate
IARC 2B

Vinyl bromide
IARC 2A

Vinyl chloride
OSHA*, IARC 1, NTP

4-Vinylcyclohexene
IARC 2B

4-Vinyl-1-cyclohexene diepoxide
IARC 2B, NTP

Vinyl fluoride
IARC 2A

Welding fumes
IARC 2B

Wood Dust
IARC 1

Zalcitabine
IARC 2B

Zidovudine (AZT)
IARC 2B
IARC - International Agency for Research on Cancer -- information published in Monograph form as data becomes available (Part of the U.N. World Health Organization)

Class 1 -- Known human carcinogen
Class 2A -- Probable human carcinogen
Class 2B -- Possible human carcinogen
Class 3 -- Not classifiable for human carcinogenicity
Class 4 -- Probably not carcinogenic to humans

NTP - National Toxicology Program -- report updated every two years (Part of the U.S. Dept. of Health & Human Services)

OSHA - Occupational Safety & Health Administration -- standards created by legislative process (Part of the U.S. Dept. of Labor)

OSHA* - indicates substances for which OSHA has promulgated expanded health standards that govern health concerns in addition to carcinogenicity

Last updated January 15, 1996 --- current to January 1996
Partial List of Mutagens (Current to October 1999)

Introduction: The following is an alphabetical compilation of chemical substances as listed in the "Dangerous Properties of Industrial Materials", 10th Ed., by N. Irving Sax and Richard J. Lewis.

This list is intended for use by laboratory personnel as an aid in determining substances for which "designated use areas" will be required under the University Chemical Hygiene Plan. It is important to remember that this list is not comprehensive. It does not include all mutagens and does not list reproductive hazards, select carcinogens or acute toxins. Additional lists are presented for other chemical hazard classifications to assist chemical hazard identification.

Questions concerning this list should be directed to Environmental Health & Safety.

**Chemical Name**
ACENAPHTHENES
ACENAPHTHYLENE
ACETALDEHYDE
ACETALDEHYDE OXIME
ACETAMIDE
3-ACETAMIDO-5-AMINO-2,4,6-TRIIODOBENZOIC ACID
ACETAMINE YELLOW CG
ACETANILIDE
ACETIC ACID
ACETIC ACID METHYLNITROSAMINOMETHYL ESTER
ACETOHYDROXAMIC ACID
ACETOL(1)
ACETOMETHOXANE
ACETONE CHLOROFORM
ACETONITRILE
p-ACETOPHENETIDIDE
ACETOPHENONE
3-ACETOPYRIDINE
o-ACETOTOLUIDIDE
N-ACETOXY 4-ACETAMIDOBIPHENYL
N-ACETOXY 2-ACETAMIDOPHENANTHRENE
N-ACETOXY-N-ACETYLC-2-AMINOFLUORENE
6-ACETOXY-BENZO(a)PYRENE
N-a-ACETOXYBENZYL-N-BENZYLNITROSAMINE
N-(4-ACETOXYBUTYL)-N-(ACETOXYMETHYL)NITROSAMINE
ACETOXYCLOHEXIMIDE
1-ACETOXY-1,4-DIHYDRO-4-(HYDROXYAMINO)QUINOLINE ACETATE (ESTER)
1'-ACETOXYESTRAGOLE
N-(2-ACETOXYETHYL)-N-(ACETOXYMETHYL)NITROSAMINE
N-ACETOXY-N-METHYL-4-AMINOAZOBENZENE
7-ACETOXYMETHYL-12-METHYLBENZ(a)ANTHRACENE
1-ACETOXY-N-METHYL-N-NITROSOETHYLAMINE
ACETOXYMETHYLPHENYLNITROSAMINE
1-ACETOXY-N-NITROSODIETHYLAMINE
1-ACETOXY-N-NITROSODIPROPYLAMINE
17-ACETOXY-19-NOR-17-a-PREGN-4-EN-20-YN-3-ONE
ACETOXYPHENYLMERCURY
1'-ACETOXYSAFROLE-2',3'-OXIDE
N-ACETOXY-N-(4-STILBENYL)ACETAMIDE
ACETPHENARSINE
ACETYL ACETONE
4-ACETYLMALINOFLUORENE
N-ACETILBENZIDINE
N-ACETIL-4-BIPHENYLHYDROXYLAMINE
o-ACETYL-N-(P-BUTOXYPHENYLACETYL)HYDROXYLAMINE
o-ACETYL-2-sec-BUTYL-4,6-DINITROPHENOL
N-ACETIL-1-CYSTEINE
ACETYLENEDICARBOXAMIDE
trans-ACETYLENE DICHLORIDE
ACETYLENE TETRABROMIDE
2-ACETYLFLURAN
ACETYL HYDRAZIDE
N-ACETIL-4-HYDROXYARSANILIC ACID compounded with DIETHYLAMINE (1:1)
N-ACETIL-S-(2-HYDROXYPHENYLETHYL)-I-CYSTEINE
ACETYLKIDAMYCIN
a-I-ACETILMETHADOL
2-ACETIL-7-METHOXYNAPHTHO(2,1-b)FURAN
N-ACETIL-N-MYRISTOYLOXY-2-AMINOFLUORENE
o-ACETIL-N-(2-NAPHTHOYL)HYDROXYLAMINE
2-ACETIL-5-NITROFURAN
2-ACETIL-4-NITROPYRROLE
2-ACETIL-5-NITROPYRROLE
2-ACETILXY-N-(3,4-DIMETHYL-5-ISOXAZOLYL)-J,4-NAPHTHOQUINONE-4-IMINE
6-ACETILXYMETHYLBENZO(a)PYRENE
5-(I -ACETILXOY-2-PROPENYL)-1,3-BENZODIOXOLE
ACETYLPHENYLMHYDRAZINE
4-ACETILPYRIDINE
ACETYL SALICYLIC ACID
o-ACETILSTERIGMATOCYSTIN
N-(N-ACETILVALYL)-N-NITROSOGLYCINE
ACID BLUE 1
ACID BLUE 92
ACID BRILLIANT GREEN BS
ACID LEATHER ORANGE BZR
ACID RED
ACID RED 92
9-ACRIDANONE
3-ACRIDINAMINE(9CI)
ACRIDINE
3,9-ACRIDINEDIAMINE(9CI)
ACRIDINE HYDROCHLORIDE
ACRIDINE MUSTARD
ACRIDINE RED
4'-(9-ACRIDINYLAMINO)-2'-AMINOMETHANESULFONANILIDE
4'-(9-ACRIDINYLAMINO)-3'-AMINOMETHANESULFONANILIDE
4'(9-ACRIDINYLAMINO)HEXANESULFONANILIDE
4'-(9-ACRIDINYLAMINO)METHANESULPHON-m-ANISIDIDE
4'-(9-ACRIDINYLAMINO)-2'-METHOXYMETHANESULFONANILIDE
N-(4-(ACRIDINYL-9-AMINO)-3-METHOXYPHENYL)ETHANESULFONAMIDE METHANES
4'-(9-ACRIDINYLAMINO)-2-METHYLETHANESULFONANILIDE
4'-(9ACRIDINYLAMINO)-3'-METHYLETHANESULFONANILIDE
4'-(9-ACRIDINYLAMINO)-2'-NITROMETHANESULFONANILIDE
N-(p-(ACRIDIN-9-YLAMINO)PHENYL)BUTANESULFONAMIDE, HYDROCHLORIDE
N-(p-(9-ACRIDINYLAMINO)PHENYL)-l-ETHANESULFONAMIDE
N-(p-(ACRIDIN-9-YLAMINO)PHENYL)-ETHANESULFONAMIDE, HYDROCHLORIDE
N-(p-(ACRIDIN-9-YLAMINO)PHENYL)HEXANESULFONAMIDE HYDROCHLORIDE
N-(p-(ACRIDIN-9-YL-AMINO)PHENYL)METHANESULFONAMIDE HYDROCHLORIDE
N-(p-(ACRIDIN-9-YLAMINO)PHENYL)PENTANESULFONAMIDE HYDROCHLORIDE
N-(p-(ACRIDINYLAMINO)PHENYL)-I-PROPANESULFONAMIDE
ACROLEIN
ACRYLAMIDE
ACRYLIC ACID
ACRYLICACID-B-CHLOROETHYLESTER
ACRYLIC ACID, DIESTER with TETRAETHYLENE GLYCOL
ACRYLONITRILE
ACTINOMYCIN
ACTINOMYCIN C
ACTINOMYCIN D
ACULEACIN A
ACYCLOVIR
ADENINE
ADENOSINE
ADENOSINE-3'-(a-AMINO-p-METHOXYHYDROCINNAMAMIDO)-3'-DEOXY-N,N-DIMETHY
ADENOSINE DIPHOSPHATE
ADIPIC ACID
ADIPIC ACID BIS(2-ETHYLHEXYL) ESTER
ADIPIC ACID DIETHYL ESTER
ARENALIN BITARTRATE
ADRIAMYCIN
AFLATOXIN BI
AFLATOXIN BI-2,3-DICHLORIDE
AFLATOXIN B2
AFLATOXIN G1
AFLATOXIN G2
AFLATOXIN MI
AFLATOXIN Ro
AGERATOCHROMENE
AGROCLAVINE
AIZEN MALACHITE GREEN
I-ALANINE
4 N-d-ALANYL-2,4-DIAMINO-2,4-DIDEOXY-1-ARABINOSE
ALAZOPEPTIN
ALCLOFENAC EPOXIDE
ADOCORTENE
ALDRIN
ALIPUR
ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE
ALKYL DIMETHYL 3,4-DICHLOROBENZENE AMMONIUM CHLORIDE
ALKYROM
ALLETHRIN
ALL-trans-FECAPENTAENE 12
ALLOXAN
p-ALLYLANISOLE
ALLYL BROMIDE
ALLYL CAPROATE
ALLYL CARBAMATE
ALLYL CHLORIDE
4-ALLYL-1,2-DIMETHOXYBENZENE
1-ALLYL-2,5-DIMETHOXY-3,4-METHYLENEDIOXYBENZENE
ALLYL GLUCOSINOLATE
ALLYL IODIDE
ALLYL METHANESULFONATE
1-(ALLYLNITROSAMINO)-2-PROPANONE
1-ALLYL-2-THIOUREA
ALLYLUREA
ALTERNARIOL-9-METHYL ETHER
ALUMINON
ALUMINUM CHLORIDE
ALUMINUM CHLORIDE HEXAHYDRATE
ALUMINUM POTASSIUM
ALUMINUM SULFATE (2:3)
ALUMINUM SULFATE OCTADECAYDRATE
AMBAZONE
AMETYCIN
AMIDOL
AMIKHELLIN HYDROCHLORIDE
4’-AMINOACETANILIDE
3’-AMINOACETOPHENONE
2-AMINOACRIDINE
9-AMINOACRIDINE
AMINOACRIDINE HYDROCHLORIDE
4’-((3-AMINO-9-ACRIDINYL)AMINO)METHANESULFONANILIDE
6-AMINO-4-(((3-AMINO-9-ACRIDINYL)AMINO)PHENYL)AMINO)CA
1-AMINOANTHRQUINONE
4-AMINOANTIPYRINE
6-AMINO-8-AZAPURINE
4’-AMINOAZOBENZENE-4-SULFONIC ACID
2-AMINO-5-AZOTOLUENE
3-AMINOBENZAMIDE
4-AMINOBENZENEOETHYLACETIC ACID
p-AMINOBENZENETHIOL
2-AMINOBENZIMIDAZOLE
AMINOBENZOIC ACID
3-AMINOBENZONITRILE
2-AMINOBENZOTHIAZOLE
AMINOBENZYLPenicillin
2-AMINO-5-BROMO-6-PHENYL-4(1H)-PYRIMIDINONE
2-AMINOCAPROIC ACID
4-AMINO-4'-(2-CARBAMOYLETHYL)-I,I-DIMETHYL-N,4'-BI(PYRROLE-2-CARBOXAMIDE
AMINO-A-CARBOLINE
3 AMINO-6-CHLOROPHENOL
4 AMINO-4'-CYANOBIPHENYL
1-AMINOCYCLOPENTANE-1-CARBOXYLIC ACID
N,4-AMINOCYTIDINE
2-AMINO-2'-DEOXYXINOSINE OXIME
1-AMINO-2,4-DIBROMOANTHRAQUINONE
3-AMINO-2,5-DICHLOROBENZOIC ACID
2-AMINO-4,6-DICHLOROPHENOL
5-AMINO-9-(DIETHYLAMINO)BENZO(a)PHENOXAZIN-7-IUM SULFATE (2:1)
5-AMINO-2,3-DIHYDRO-1,4-PHTHALAZINEDIONE
5-AMINO-1,6-DIHYDRO-7H-v-TRIAZOLEO(4,5-d)PYRIMIDIN-7-ONE
3-AMINO-7-DIMETHYLAMINO-2-METHYLPHENAZATHIONIUM CHLORIDE
AMINODIMETHYLAMINOTOLUAMINOZINE HYDROCHLORIDE
2-AMINO-3,4-DIMETHYLIMIDAZO(4,5-@QUINOLINE
2-AMINO-3,8-DIMETHYLIMIDAZO(4,5-@QUINOXALINE
5-AMINO-1,3-DIMETHYL-4-PYRAZOLYL O-FLUOROPHENYL KETONE
3-AMINO-1,4-DIMETHYL-5H-PYRIDO(4,3-b)INDOLE ACETATE
6-AMINO-2,3-DIMETHYLQUINOXALINE
2-AMINO-4,6-DINITROTOLUENE
1-AMINO-9,10-DIOXO-9,10-DIHYDRO-2-ANTHRACENECARBOXYLIC ACID
4-AMINODIPHENYL
9-AMINOELLIPTICINE
2-AMINOETHANETHIOL
3-AMINO-4-ETHOXYACETANILIDE
3-AMINO-g-ETHYLCARBAZOLE
3-AMINO-9-ETHYLCARBAZOLEHYDROCHLORIDE
N-AMINOETHYLETHANOLAMINE
6-AMINO-1-ETHYL-4-(p-(p-(I-ETHYLVIDINIUM-4-YLAMINO)BENZAMIDO)ANILINO)Q
6-AMINO-1-ETHYL-4-(p-(p-(I-ETHYLVIDINIUM-4-YLAMINO)PHENYL)CARBAMOYL)
3 (2-AMINOETHYL)INDOL-5-OL CREATININE SULFATE
N-AMINOETHYLPIPERAZINE
2-AMINO 4-(ETHYLTHIO)BUTYRIC ACID
2-AMINOFLUORENONE
4-AMINOFLUORENONE
4-AMINO-4'-FLUORODIPHENYL
AMINOFURACARB
1,2-AMINO-4-(GUANIDINOXY)BUTYRIC ACID
1-AMINO-4-HYDROXYANTHRAQUINONE
2-AMINO-3-HYDROXYBENZOIC ACID
4 AMINO-2-HYDROXYTOLUENE
5-AMINOIMIDAZOLE-4-CARBOXAMIDE
7-AMINO-3-IMINO-3H-PHENOTHIAZINEMONOHYDROCHLORIDE
5 AMINOINDAZOLE HYDROCHLORIDE
4-AMINO-4'-IODOBIPHENYL
1-AMINO-2-METHOXYANTHRAQUINONE
2-AMINO-4-METHOXYBENZOTHIAZOLE
2-AMINO-5-METHOXY-2'(or 3')-METHYLINDIAMINE
6-AMINO-8-METHOXY-1-METHYL-4-(p-(p-1-METHYL-PYRIDINIUM-4-YL)AMINO)BENZAL
&-AMINO-4-(2-METHOXY-p-(p-1-METHYL-PYRIDINIUM-4-YL)AMINO)BENZAMIDOM)ANIL
1-AMINO-2-METHYLANTHRAQUINONE
2-MINO-6-METHYLDIPYRIDO(1,2-a;3',2'-d)IMIDAZOLE
2-AMINO-3-METHYLIMIDAZO(4,5-f)QUINOLINE
2-AMINO-4-METHYLPHENOL
2-AMINO-1-METHYL-6-PHENYLIMIDAZO(4,5-B)PYRIDINE
4-AMINO-3-METHYL-6-PHENYL-1,2,4-TRIAZIN-5(4H)-ONE
4-((3-AMINO-4-(4-((I-METHYLPYRIDINIUM-4-YL)AMINO)BENZOYL)AMINO)PHENYL)AM
3-AMINO-1-METHYL-5H-PYRIDO(4,3-b)INDOLE
2-AMINO-3-METHYL-9H-PYRIDO(2,3-b)INDOLE
3-AMINO-1-METHYL-5H-PYRIDO(4,3-b)INDOLE ACETATE
1-(4-AMINO-2-METHYL-PYRIMIDIN-5-YL)METHYL-3-(2-CHLOROETHYL)-3-NITROSOURE
2-AMINO-1,5 NAPHTHALENESULFONIC ACID
4-AMINO-1-NAPHTHALENESULFONIC ACID
1-AMINO-2-NAPHTHOL HYDROCHLORIDE
2-AMINO-1,4-NAPHTHOQUINONE IMINE HYDROCHLORIDE
6-AMINONICOTINAMIDE
2-AMINO-4-NITROANILINE
4-AMINO-2-NITROANILINE
4-AMINO-4'-NITROBIPHENYL
4-AMINO-3-NITRO-6-CHLOROANILINE
4-AMINO-3-NITRO-2,5-DIMETHYLANILINE
4-AMINO-3-NITRO-5,6-DIMETHYLANILINE
2-AMINO-4-(5-NITRO-2-FURYL)THIAZOLE
3-AMINO-6-(2-(5-NITRO-2-FURYL)VINYL)PYRIDAZINE HYDROCHLORIDE
2-AMINO-4-(2-(5-NITRO-2-FURYL)VINYL)THIAZOLE
4-AMINO-3-NITRO-5-b-HYDROXYETHYLANILINE
2-AMINO-5-NITROPHENOL
2-(4-AMINO-2-NITROPHENYL)AMINO)ETHANOL
2-AMINO-5-NITROTHIAZOLE 2
3-AMINONORHARMAN
AMINONUCLEOSIDE PUROMYCIN
AMINOOXYACETIC ACID AMINOOXYACETIC
1-AMINOPHENANTHRENE
3-AMINO-2-PHENAZINOL 3
m-AMINOPHENOL
2-AMINOPHENOL
4-AMINOPHENOL
P-AMINOPHENOLHYDROCHLORIDE
4-AMINOPHENYL DISULFIDE
2-AMINO-5-PHENYLpyridine
3-AMINOPROPIONITRILE
AMINOPROPYLAMINOETHYLTHIOPHOSPHATE
6-AMINO-1-PROPYL-4-(p-(p-1-PROPYLPYRIDINIUM-4-YL)AMINO)PHENYL)CARBAMO
AMINOPTERIDINE
2-AMINOPURINE
2-AMINOPURINE-6-THIOL
(S)-3-(6-AMINO-9H-PURIN-9-YL)-1,2-PROPANEDIOL
3-AMINO-5H-PYRIDO(4,3-b)INDOLE
AMINOPYRINE SODIUM SULFONATE
2-AMINOQUINOLINE
3 AMINOQUINOLINE
8-AMINOQUINOLINE
4-AMINOQUINOLINE-1-OXIDE
5-AMINO-2-b-d-RIBOFURANOSYL-as-TRIAIZIN-3(2H)-ONE
4-AMINOSALICYLIC ACID
trans-4-AMINOSTILBENE
2-(p-AMINOSTYRYL)-6-(p-ACETYLAMINOBENZOYLAMINO)QUINOLINE METHOACETAT
3,3’-(2-AMINOTERPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYLIMINO))BIS(l-ETH
3,3’-(2-AMINOTERPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYLIMINO))BIS(1-ME
2-AMINO-3,4,5,8-TETRAMETHYLIMIDAZO(4,5-F)QUINOXALINE 2 AMINO 3 4 5 8 TETRA
2-AMINO-3,4,7,8-TETRAMETHYLIMIDAZO(4,5-F)QUINOXALINE 2 AMINO 3 4 7 8 TETRA
2-AMINOTHIAZOLE
1-AMINO-2-(4-THIAZOLYL)-5-BENZIMIDAZOLECARBAMIC ACID ISOPROPYL ESTER
p-(4-AMINO-m-TOLUIDINO)PHENOL
AMINOTRIACETIC ACID
2-AMINO-3,4,5-TRIMETHYLIMIDAZO(4,5-F)QUINOXALINE
2-AMINO-3,5,7-TRIMETHYLIMIDAZO(4,5-F)QUINOXALINE
7-AMINO-2,4,6-TRIMETHYLQUINOLINE
11-AMINOUNDECANOIC ACID
5-AMINOURACIL
AMIPROPHOS
AMITROLE
AMMONIUM BICHROMATE
AMMONIUM CHLORIDE
AMMONIUM CHLOROPLATINATE AMMONIUM
AMMONIUM CHROMATE
AMMONIUM, DIETHYL(4-(p-(DIETHYLAMINO)PHENYL)(3,6-DISULFO-1-NAPHTHYL)ME
AMMONIUM HEPTAMOLYBDATE
AMMONIUM HYDROXIDE
AMMONIUM-N-NITROSOPHENYLHYDROXYLAMINE
AMMONIUM SULFATE (2:1)
AMMONIUM TELLURATE
AMMONIUM VANADATE
AMP
c-AMP
dl-AMPHETAMINE SULFATE
AMPHOTERICIN B
AMYGDALIN
AMYL ALCOHOL
n-AMYL-N-METHYLNITROSAMINE AMYL
n-AMYL NITRITE
AGUIDIN
ANILINE
ANILINE VIOLET
ANILINO(p-NITROPHENYL)SULFIDE
m-ANISALDEHYDE
o-ANISALDEHYDE
p-ANISALDEHYDE
ANISe OIL
m-ANISIDINE
p-ANISIDINE
o-ANISIDINE HYDROCHLORIDE
p-ANISIDINE HYDROCHLORIDE
ANISOLE
ANTHANTHRENE
1-ANTHRACENAMINE
2-ANTHRACENAMINE
ANTHRACENE
ANTHRACENE-9-CARBOXYLIC ACID
9-ANTHRACENEMETHANOL
2-ANTHRACENESULFONIC ACID, 4,8-DIAMINO-9,10-DIHYDRO-1,5-DIHYDROXY-9,10-D
1,8,9-ANTHRACENETRIOL
ANTHRAMYCIN
ANTHRANILIC ACID
ANTHRANILIC ACID, CINNAMYL ESTER
ANTHRANILIC ACID, METHYL ESTER
ANTHRAQUINONE
2,6-ANTHRAQUINONYLDIAMINE
ANTHRONE
ANTIBIOTIC 1600
ANTIBIOTIC CC 1065
ANTIBIOTIC MA 144AI
ANTIBIOTIC MA 144S2
ANTIHELMYCIN
ANTIMONIC ACID, SODIUM SALT
ANTIMONY(III) CHLORIDE
ANTIMONY(V) CHLORIDE
ANTIMONY OXIDE
ANTIMONY POTASSIUM TARTRATE
ANTIMONY SODIUM TARTRATE
ANTIMONY THIOANTIMONATE
ANTIMONY TRIACETATE
ANTIPYRINE
ANTU
APHOLATE
APOMINE BLACK GX
APORMORPHINE CHLORIDE
ARABIC GUM
ARABINOCYTIDINE
9-b-d-ARABINO FURANOSYL ADENINE
1-b-d-ARABINOFURANOSYLCYTOSINE HYDROCHLORIDE
l-b-d-ARABINOFURANOSYL-5-FLUOROCYTOSINE 1
ARACHIDONIC ACID
ARA-C PALMITATE ARA
ARATHANE
ARECAIDINE
,ARECOLINE
I-ARGININE
ARISTOCORT
ARISTOCORTACETONIDE
ARISTOLIC ACID
ARISTOLOCHINE
AROTINOIDETHYL ESTER
ARSENIC
o-ARSENIC ACID
ARSENIC ACID, DISODIUM SALT
ARSENIC ACID, DISODIUM SALT, HEPTAHYDRATE
ARSENIC ACID, MONOSODIUM SALT
ARSENIC ACID, SODIUM SALT
ARSENIC CHLORIDE
ARSENIC PENTOXIDE
ARSENIC TRIOXIDE
cis-b-ASARONE
ASBESTOS
ASBESTOS, AMOSITE
ASBESTOS, ANTHOPHYLTE
ASBESTOS, CHRYSOTILE
ASBESTOS, CROCIDOLITE
I-ASCORBIC ACID
ASCORBIC ACID SODIUM SALT ASCORBIC
I-ASPARTIC ACID
ASPHALT
ASTA Z 7557
ATABRINE
ATP
ATRAZINE
ATROMID S
AURANOFIN
AURANTINE
AUREINE
AUSTOCYSTIN D
AVERTIN
AZACOSTEROL DIHYDROCHLORIDE
AZACYTIDINE
5-AZADEOXYCYTIDINE
AZASERINE
AZATHIOPRINE
AZIDITHION
3'-AZIDO-3'-DEOXYTHYMIDINE
3-AZIDO-2-METHYL-DL-ALANINE
AZINPHOS METHYL
AZIRIDINE CARBOXYLIC ACID ETHYL ESTER
1-AZIRIDINE ETHANOL
1-AZIRIDINE PROPIONITRILE
AZIRIDINYLQUINONE
p-AZOANILINE
AZOBENZENE
AZODICARBAMIDE
AZOXYBENZENE
AZOXYMETHANE
2-AZOXYPROPANE
BACCIDAL
BACILLUS THURINGIENSIS EXOTOXIN
BACILYSIN
BACITRACIN
BARBITAL
BARIUM CHLORIDE
BARIUM CHROMATE(VI)
BARIUM SULFATE
ZASIC ORANGE 3RN
BASIC RED 18
BENADRYL HYDROCHLORIDE
BENOMYL
BENZ(1)ACEANTHRYLENE
BENZ(a)ACEANTHRYLENE
BENZ(j)ACEANTHRYLEN-1 O-OL
BENZ(e)ACEPHENANTHRYLENE
BENZ(c)ACRIDINE
BENZ(c)ACRIDINE-7-CARBOXALDEHYDE
trans-BENZALACETONE
BENZAL CHLORIDE
SENZALDEHYDE
BENZALDEHYDE GREEN
BENZAMIDE
(2-BENZAMIDO)ACETOHYDROX,AMICACID
BENZ(a)ANTHRACENE
BENZ(a)ANTHRACENE-7-CARBOXALDEHYDE
BENZ(a)ANTHRACENE-1,2-DIHYDRODIOL
BENZ(a)ANTHRACENE-3,4-DIHYDRODIOL
BENZ(a)ANTHRACENE-5,6-cis-DIHYDRODIOL
trans-BENZ(a)ANTHRACENE-8,9-DIHYDRODIOL
BENZ(a)ANTHRACENE-10,1 1-DIHYDRODIOL
BENZ(a)ANTHRACENE-7,12-DIMETHANOL
BENZ(a)ANTHRACENE-7-METHANOL
BENZ(a)ANTHRACENE-7-METHANOL ACETATE
BENZ(a)ANTHRACEN-5-OL
7H-BENZ(de)ANTHRACEN-7-ONE
BENZEDRINE
BENZENAMINE HYDROCHLORIDE
BENZENE
BENZENECARBOTHIOAMIDE
1,4-BENZENEDIAMINE, N,N'-DICYCLOHEXYL
BENZENEDIAMONIUMTETRAFLUOROBORATE
BENZENE HE)(ACHLORIDE
BENZENE HEXACHLORIDE-a-isomer
BENZENE HEXACHLORIDE-g-isomer
trans-a-BENZENEHEXACHLORIDE
1,2,4-BENZENETRIOL  
BENZHYDRYL  
BENZIDAZOL  
BENZIDINE  
BENZIDINE HYDROCHLORIDE  
BENZIMIDAZOLE  
1-(2-BENZIMIDAZOLYL)-3-METHYLUREA  
1,2-BENZISOTHIAZOL-3(2H)-ONE-1,1-DIOXIDE  
BENZO(b)CHRYSENE  
BENZO(g)CHRYSENE-9,10-OXIDE  
BENZO(def)CYCLOPENTA(hi)CHRYSENE  
BENZO(l)CYCLOPENTA(cd)PYRENE  
1,3-BENZODIOXOLE-5-(2-PROPYL-1-OL)  
2,13-BENZOFLUORANTHENE  
BENZO(K)FLUORANTHENE  
BENZO(B)FLUORENE  
2,3-BENZOFLUORENE  
BENZOFURAN  
BENZOHYDROXAMIC ACID  
BENZOIC ACID  
BENZOIN  
BENZONITRILE  
BENZO(rst)PENTAPHENE  
BENZO(ghi)PERYLENE  
BENZO(C)PHENANTHRENE  
BENZOPHENONE  
BENZOPHENONE-2  
BENZO(e)PYRENE  
BENZO(a)PYRENE-7,8-DIHYDRODIOL  
Anti-BENZO(a)PYRENE-7,8-DIHYDRODIOL-9,10-OXIDE  
BENZO(a)PYRENE DIOL EPOXIDE  
BENZO(a)PYRENE-3,6-DIONE  
BENZO(a)PYRENE-4,5-IMINE  
BENZO(a)PYRENE-6-METHANOL  
BENZO(a)PYRENE-4,5-OXIDE  
BENZO(a)PYRENE-7,8-OXIDE  
BENZO(a)PYRENE-9,10-OXIDE  
BENZO(a)PYRENE-1 1,12-OXIDE  
BENZO(a)PYREN-1-OL  
BENZO(a)PYREN-2-OL  
BENZO(a)PYREN-3-OL  
BENZO(a)PYREN-6-OL  
BENZO(a)PYREN-7-OL  
BENZO(a)PYREN-9-OL  
BENZO(a)PYREN-10-OL  
BENZO(a)PYREN-11-OL  
BENZO(a)PYREN-12-OL  
BENZO(@QUINOLINE  
BENZO(H)QUINOLINE  
O-BENZOQUINONE
BENZOTHIAZOLE DISULFIDE
2-BENZOTHIAZOLETHIOL
2-BENZOTHIAZOLYL-N-MORPHOLINOSULFIDE
1H-BENZOTRIAZOLE
BENZO(b)TRIPHENYLENE
BENZ(a)OXIRENO(c)ANTHRACENE
5-BENZOYLAMINO-1-CHLOROANTHRAQUINONE
BENZOYL CHLORIDE
2-BENZOYLHYDRAZONO-1 13-DITHIOLANE
6-BENZOYL-2-NAPHTHOL
N-BENZOYOLOXY-N-METHYL-4-AMINOAZOBENZENE
N-BENZOYOLOXY-3'-METHYL-4-
BENZOYL PEROXIDE
BENZOYLPHENOBARBITAL
(4-BENZOYL-o-PHENYLENEDIAMMINE)DICHLOROPLATINUM(ii
BENZYL ACETATE
6-BENZYLADENINE
BENZYL ALCOHOL
BENZYL-6-AMINOPENICILLINICACID
BENZYL BROMIDE
BENZYL CHLORIDE
BENZYLDIMETHYL(2-(2-(p-(1,1,3,3-TETRAMETHYLBUTYL)PHENOXY)ETHOXY)ETHYL)
BENZYL FORMATE
5-BENZYL-3-FURYL METHYL(ñ)-cis,trans-CHRYSANTHEMATE
BENZYLHYDRAZINE
4-BENZYL-b-(ISONICOTINYLHYDRAZINO)PROPIONAMIDE N BENZYL ISONICOTINY
BENZYL-ISOTHIOCYANATE
BENZYLPHENIC ACID POTASSIUM SALT
BENZYLPHENYL NITROSAMINE
BENZYL TRICHLORIDE
BERBERINE
BERBERINE HYDROCHLORIDE
BERYLLIUM
BERYLLIUM CHLORIDE
BERYLLIUM DINITRATE TETRAHYDRATE
BERYLLIUM OXIDE
BERYLLIUM SULFATE (1:1)
BERYLLIUM SULFATE TETRAHYDRATE (1:1:4)
BERYLLIUM ZINC SILICATE
BESTRABUCIL
BETEL NUT
BETEL NUT TANNIN
BETEL QUID EXTRACT
BETEL TOBACCO EXTRACT
BETNELAN PHOSPHATE
4',4'''-BIACETANILIDE
5,5'-BIANTHRANILIC ACID
2-(BICYCLO(2.2.1)HEPT-2-YLIDENEMETHYL)-I-METHYL-5-NITRO-IH-IMIDAZOLE
1,1'-BI(ETHYLENE OXIDE)
((D2,2')-BIINDOLINE)-3,3'-DIONE
TEXAS TECH UNIVERSITY CHEMICAL HYGIENE PLAN January 2013

BILTRICIDE
BINAPACRYL
6-BIOPTERIN
BIPHENYL
2-BIPHENYLMIDAMINE
2-BIPHENYLMIDAINE, HYDROCHLORIDE
2,4'-BIPHENYLDIAMINE
2,2'-BIPHENYLDIOL
2,5-BIPHENYLDIOL
4,4'-BIPHENYLDIOL
4-SIPHENYLHYDROXILAMINE
2-BIPHENYLOL
2-BIPHENYLOL, SODIUM SALT
3,3',4,4'-BIPHENYLTETRAMINE
1-BIPHENYLYL-3,3-DIMETHYLTRIAZENE 1 SIPHENYLYL
7,7'-(p,p-BIPHENYLYLENEBIS(CARBONYLIMINO))BIS(2-ETHYLQUINOLINUM) DITOSY
2,2'-BIPYRIDINE
2,7-BIS(ACETAMIDO)FLUORENE
BIS(4-AMINO-3-CHLOROPHENYL) ETHER
4,4'-BIS((l-AMINO-8-HYDROXY-2,4-DISULFO-7-NAPHTHYLAZO)-3,3'-BITOLYL, TETRAS
2,4-BIS((4-AMINOPHENYL)METHYL)BENZENAMINE
2,5-BIS(ATSIRIDINO)BENZOQUINONE
N,N'-BIS(AZIRIDINYLACETYL)-1,8-OCTAMETHYLENEDIAMINE
2,5-BIS(l-AZIRIDINYL)-3-(2-CARBAMOYL-1-METHOXYETHYL)-6-METHYL-1,4-SEN
P,P-BIS(l-AZIRIDINYL)-N-ETHLYPHOSPHINIC AMIDE
p,p-BIS(l-AZIRIDINYL)-N-ISOPROPYLAMINOPHOSPHINE OXIDE
p,p-BIS(l-AZIRIDINYL)-N-PROPYPHOSPHINIC AMIDE
4,4'-BIS((4-BIS((2-HYDROXYETHYL)AMINO)-6-(m-SULFOANILINO)-s-TRIAZIN-2-YL)AMIN
1,4-BIS(3-BROMOPROPIONYL)-Piperazine
BIS-B-CHLOROETHYLAMINE
BIS(2-CHLOROETHYL)AMINE HYDROCHLORIDE
4'-BIS(2-CHLOROETHYLAMINO)ACETANILIDE
dl-3-(p-BIS(2-CHLOROETHYLAMINO)PHENYL)ALANINE
3-(p-BIS(b-CHLOROETHYLAMINO)PHENYL)-dl-ALANINE HYDROCHLORIDE
5-(BIS(2-CHLOROETHYL)AMINO)URACIL
N,N-BIS(2-CHLOROETHYL)BENZYLAMINE
N,N-BIS(2-CHLOROETHYL) BUTYLAMINE HYDROCHLORIDE
N,N-BIS(2-CHLOROETHYL)-p-CHLOROBENZYLAMINE HYDROCHLORIDE
BIS(b-CHLOROETHYL)METHYLAMINE
BIS(2-CHLOROETHYL)METHYLAMINE
N,N-BIS(2-CHLOROETHYL)-2-NAPHTHYLAMINE
BIS(2-CHLOROETHYL)NITROSOAMINE
N,N'-BIS(2-CHLOROETHYL)-N-NITROSOCARBAMOYL)CYSTAMINE
N,N'-BIS(2-CHLOROETHYL)-N-NITROSOUREA
BIS(2-CHLOROETHYL)SULFIDE
N,N-BIS(2-CHLOROETHYL)-2-THENYLAMINE HYDROCHLORIDE
BIS(2-CHLOROISOPROPYL) ETHER
9,1 O-BIS(CHLOROMETHYL)ANTHRACENE
BIS(CHLOROMETHYL) ETHER
BIS(CHLOROMETHYL)KETONE
BIS(p-CHLOROPHENYL)ACETIC ACID
1,6-BIS(5-(p-CHLOROPHENYL)(GUIANIDINO)HEXANE
1, 1 -BIS(4-CHLOROPHENYL)-2,2-DICHLOROETHANE
2,2-BIS(p-CHLOROPHENYL)-1,1-DICHLOROETHYLENE
2,2-BIS(p-CHLOROPHENYL)ETHANE
2,2-BIS(o,p-CHLOROPHENYL)-1,1,1-TRICHLOROETHANE
1,1-BIS(p-CHLOROPHENYL)-2,2,2-TRICHLOROETHANOL
BIS(CYCLOPENTADIENYL)COBALT
cis-BIS(CYCLOPENTYLAMINE)PLATINUM(li)
1,8-BIS(DIAZO)-2,7-OCTANEDIONE
BIS(2,3-DIBROMOPROPYL)PHOSPHATE
N,N'-BIS(DICHLOROACETYL)-1,B-DIAMINOOCOTANE
BIS(DIETHYLDITHIOCARBAMATO)CADMIUM
BIS(DIETHYLDITHIOCARBAMATO)ZINC
1,4-BIS(N,N'-DIETHYLENE PHOSPHAMIDE)PIPERAZINE
3,6-BIS(DIMETHYLAMINO)ACRIDINE
p-BIS(DIMETHYLAMINO)BENZENE
4,4'-BIS(N,N-DIMETHYLAMINO)BIPHENYL
3,7-BIS(DIMETHYL AMINO)PHENAZA THIONIUM CHLORIDE
BIS(DIMETHYLTHIOCARBAMOYL)SULFIDE
BIS(2,3-EPOXYCYCLOPENTYL) ETHER
BIS(2-ETHOXYETHYL)NITROSOAMINE
BIS(2-ETHYL-2-HYDROXYBUTANOATO(2-)-(01,02)-OXYCHROMATE(I)-) SODIUM
BIS-HYDROXYETHYLAMINOPROPYL-HYDROXYETHYL-OCTADECYLAMINDIHYDRO
2-(N,N-BIS(2-HYDROXYETHYL)AMINO)-1,4-BENZOQUINONE
1,4-BIS((2-(HYDROXYETHYL)AMINO)ETHYL)AMINO)-9,10-ANTHRACENEDIONE DIA
1,4-BIS((2-(HYDROXYETHYL)AMINO)ETHYL)AMINO)ANTHRAQUINONE
2-(2-HYDROXYETHYL)AMINO)5-NITROPHENOL
4-BIS(2-HYDROXYETHYL)AMINO-2-(5-NITRO-2-THIENYL)QUINAZOLINE 48IS2HYDR
N,N'-BIS(2-HYDROXYETHYL)-N-METHYL-2-NITRO-p-PHENYLENEDIAMINE
N,N-BIS(2-HYDROXYETHYL)-1,4-PHENYLENEDIAMINE SULFATE MONOHYDRATE
BIS(2-HYDROXY-4-METHOXYPHENYL)METHANONE BIS 2 HYDROXY
BIS(HYDROXYMETHYL)FURATRIZINE
BIS(ISOOCTYLOXYCARBONYL METHYLTHIO)DIOCTYL STANNANE
2,4-BIS(ISOPROPYLAMINO)-6-METHYLMERCAPTO-s-TRIAZINE
BIS(4-MALEIMIDOPHENYL)METHANE
1,2-BIS(METHACRYLOYLOXY)ETHANE
BIS(METHANETHIOLATO)TETRANITROSYLIDI IRON
BIS(2-METHOXY ETHYL)ETHER
BIS(4-METHOXYPHENYL)AMINE
1,4-BIS(METHYLAMINO)-9,10-ANTHRACENEDIONE
N,N'-BISMORPHOLINEDISULFIDE
BIS(p-NITROPHENYL)DISULFIDE
(8S-(8R-,16R'))-8,16-BIS(2-OXOPROPYL)-1,9-DIOXYACLOHEY, ADECANE-2,5,10-TRIO
BIS(8-OXYQUINOLINE)COPPER
BISPHENOL A DIGLYCIDYL ETHER
1,4-BIS(PHENYL AMINO)BENZENE
N,N'-BISPROPYLENEISOPHTHALAMIDE
BIS(THIOUREA)
BIS(TRIBUTYL TIN)OXIDE
(m,o'-BITOLYL)-4-AMINE
BLACK PEPPER OIL
BLADEX
BLEOMYCIN
BLEOMYCIN A2
BLEOMYCIN A COMPLEX
BLEOMYCIN B2
BLEOMYCIN PEP
BLEOMYCIN SULFATE
BORANE, COMPOUND with TRIMETHYLAMINE (1:1)
BORIC ACID
BOTRYODIPLODIN
(+)-BP-7-b,8-a-DIOL-9-a,10-a-EPOXIDE 2
B(a)PEPOXIDEII
B(c)PHDIOLEPOXIDE-1
BRACKENFERN,DRIED
BRADYKININ
BREDININ
BRILLIANT CRESYL BLUE
BROMACIL
BROMAZEPAM
BROMEOSIN
a-BROMOACETIC ACID
BROMOACETONITRILE
4’-(3-BROMO-9-ACRIDINYLAMINO)METHANESULFONANILIDE
2-ROMOACROLEIN
3’-BROMO-trans-ANETHOLE
4-BROMOANILINE
4-BROMOBIPHENYL
1-BROMOBUTANE
2-BROMOBUTANE
BROMOCHLOROACETONITRILE
2-BROMO-2-CHLORO-1,1-DIFLUOROETHYLENE 2 BROMO 2 CHLORO
BROMOCHLORODIFLUOROMETHANE
BROMOCRIPTINE
5-BROMO-2'-DEOXYURIDINE
BROMODICHLOROMETHANE
3-BROMO-7,12-DIMETHYLBENZ(a)ANTHRACENE
4-BROMO-7,12-DIMETHYLBENZ(a)ANTHRACENE
BROMOEOSINE
3-BROMO-1,2-EPOXYPROPANE
2-BROMO ETHANOL
BROMOETHYL ACETATE
2-BROMOETHYLAMINE
2-BROMO-2-ETHYLBUTYRYLUREA
BROMOFENOXIM
BROMOFUORESCEIC ACID
BROMOFORMAL
BROMOFOSMETHYL
9-BROMOMETHYLANTHRACENE
7-BROMOMETHYLBENZ(a)ANTHRACENE
6-BROMOMETHYLBENZO(a)PYRENE
7-BROMOMETHYL-12-METHYLBENZ(a)ANTHRACENE
12-BROMOMETHYLBENZO(a)ANTHRACENE
1-BROMO-2-METHYLPROPANE
b-BROMO-b-NITROSOSTYRENE
1-(4-BROMOPHENYL)-3,3-DIMETHYLTRIAZENE
3-BROMOPROPANOL
I-BROMOPROPENE
2-BROMOPROPENE
3-BROMOPROPIONIC ACID
4-BROMOSTYRENE OXIDE
2-BROMOTOLUIDINE
BROMOTRICHLOROMETHANE
5-BROMOURACIL
(E)-5-(2-BROMOVINYL)-2'-DEOXYURIDINE
BRUCEANTIN
BUFORMIN HYDROCHLORIDE
1,3-BUTADIENE
I-BUTADIENE DIEPOXIDE
1,4--BUTANEDIAMINE
1,4-BUTANE DIGLYCIDYL ETHER
1,4-BUTANEDIOL
1,4-BUTANEDIOL DIMETHYL SULFONATE
2,3-BUTANEDIONE
BUTANE SULTONE
4-BUTANOLIDE
1-BUTENE OXIDE
2-BUTEN-1-OL
3-BUTEN-2-ONE
3-BUTENYL-(2-PROPENYL)-N-NITROSAMINE
(BUTOXYMETHYL)NITROSOMETHYLAMINE
p-BUTOXYPHENYLACETOXYHYDROXAMICACID
N-BUTYL-N-(l-ACETOXYBUTYL)NITROSAMINE
sec-BUTYL ACETOXYMETHYL NITROSAMINE
N-BUTYLALCOHOL
p-(BUTYLAMINO)BENZOICACID-2-(DIMETHYLAMINO)ETHYLESTER
2-tert-BUTYLAMINO-4-ETHYLAMINO-6-METHOXY-s-TRIAZINE
1-(tert-BUTYLAMINO)3-(3-METHYL-2-NITROPHENOXY)-2-PROPA
BUTYLATED HYDROXYANISOLE
2-tert-BUTYLBENZIMIDAZOLE
5-BUTYL-2-BENZIMIDAZOLECARBAMIC ACID M</span>
z-tert-BUTYL-p-CRESOL
N-BUTYL-N-(2,4-DIHYDROXYBUTYL)NITROSAMINE
1-BUTYL-313-DIMETHYL-1-NITROSOUREA
2-sec-BUTYL-4,6-DINITROPHENOL
4-BUTYL-1,2-DIPHENYL-3,5-DIOXO PYRAZOLIDINE
5-n-BUTYL-2-ETHYLAMINO-4-HYDROXY-6-METHYL-PYRIMIDINE
N-BUTYL GLYCIDYL ETHER
T-BUTYLGLYCIDYLETHER
BUTYLHYDRAZINEOXALATE
tert-BUTYLHYDROPEROXIDE
tert-BUTYLHYDROQUINONE
3-tert-BUTYL-4-HYDROXYANISOLE
n-BUTYL-N-(2-HYDROXYBUTYL)NITROSAMINE
n-BUTYL-N-(3-HYDROXYBUTYL)NITROSAMINE BUTYL
BUTYL(2-HYDROXYETHYL)NITROSOAMINE
n-BUTYL-N-(2-HYDROXYL-3-CARBOXYPROPYL)NITROSAMINE
N-BUTYL IODIDE
N-BUTYLMERCURIC CHLORIDE
BUTYL MESYLATE
6-tert-BUTYL-3-METHYL-2,4-DINITRO ANISOLE
N-BUTYL NITRITE
sec-BUTYL NITRITE NITRITE540-80-7
4-(BUTYLNITROSAMINO)BUTYL ACETATE
N-BUTYL-N-NITROSO-b-ALANINE
BUTYNITROSOAMINOMETHYL ACETATE
3-(BUTYNITROSOAMINO)-I-PROPANOL
1-(BUTYNITROSOAMINO)-2-PROPANONE
N-BUTYL-N-NITROSO-1-BUTAMINE
N-BUTYL-N-NITROSOCARBAMIC ACID-1 -NAPHTHYL ESTER
N-BUTYL-N-NITROSO ETHYL CARBAMATE
2-BUTYL-3-NITROSOTHIAZOLIDINE
N-BUTYNITROSOUREA
N-BUTYL-N-(2-OXOBUTYL)NITROSAMINE
N-BUTYL-N-(3-OXOBUTYL)NITROSAMINE
tert-BUTYL PERBENZOATE
ter(-BUTYLPHENOL GLYCIDYL ETHER
5-BUTYL PICOLINIC ACID
4-tert-BUTYLPYROCATECHOL
1-BUTYL-3-(p-TOLYL SULFONYL)UREA
BUTYL-2,4,5-TRICHLOROPHENOXYACETATE
BUTYL TRICHLORO STANNANE
N-BUTYLUREA
N-BUTYRALDEHYDE
N-BUTYRALDEHYDE OXIME
N-BUTYRIC ACID
B-BUTYROLACTONE
dl-b BUTYROLACTONE
N-(I-BUTOXYMETHYL)METHYLNITROSAMINE
CADMIUM
CADMIUM(II) ACETATE
CADMIUM ACETATE DIHYDRATE
CADMIUM CARBONATE
CADMIUM CHLORIDE
CADMIUM CHLORIDE, HYDRATE (2:5)
CADMIUM DIACETATE MONOHYDRATE
CADMIUM, ION (Cd2+)
CADMIUM NITRATE
CADMIUM(II) NITRATE TETRAHYDRATE (1:2:4)
CADMIUM SULFATE (1:1)
CADMIUM SULFATE (II 1 HYDRATE (3-.8)
CADMIUM SULFIDE
CADMIUM SULFIDE (AMORPHOUS)
CAFFEIC ACID
CAFFEINE
CAJEPUTOL
CALCIUM ACETATE
CALCIUM-O-BENZOSULFIMIDE
CALCIUM CHLORIDE
CALCIUM CHROMATE
CALCIUMCHROMATE(VI)DIHYDRATE
CALCIUM CYCLOHEXYLSULPHAMATE
CALCIUM DIBROMIDE
CALCIUM DICHROMATE(VI)
CALCIUM FLUORIDE
CALCIUM HYDROXIDE
CALCIUM TRISODIUM DIETHYLENE TRIAMINE PENTAACETATE
CAMBENDAZOLE
CAMPHENE
CAMPHOR
CAMPTOTHECINE
CANNABIDIOL
CANNABINOL
CANNABIS
CAPROLACTAM
CAPSAICIN
CAPTAFOL
CAPTAN
CARACEMIDE
CARAMEL
CARAWAY OIL
N-(CARBAMOYL METHYL)-2-DIAZOACETAMIDE N
N-(I-CARBAMOYL-4-(NITROSOCYANAMIDO)BUTYL)BENZAMIDE
1-CARBAMYL-2-PHENYLHYDRAZINE
CARBANILIC ACID ISOPROPYL ESTER
CARBANOLATE
CARBARYL
CARBAZOLE
CARBIDOPA
CARBITOL CELLOSOLVE
CARBOFURAN
CARBON BLACK
CARBON DISULFIDE
CARBONIC ACID-2-sec-BUTYL-4,6-DINITROPHENYL ISOPROPYL ESTER
CARBON MONOXIDE
CARBON TRIFLUORIDE
CARBOPLATIN
CARBOSULFAN
1-p-(CARBOXAMIDOPHENYL)-3,3-DIMETHYLTRIAZINE
CARBOXYACETIC ACID
CARBOXYCYCLOPHOSPHAMIDE
2-CARBOXY-4’-(DIMETHYLAMINO)AZOBENZENE
3’-CARBOXY-4-(DIMETHYLAMINO)AZOBENZENE
6-CARBOXYL-4-NITROQUINOLINE-1-OXIDE
1-CARBOXY-4-NITROBENZENE
CARDAMON OIL
CARDIS
CARMINOMYCIN I
CARMOFUR
D-CARVONE
CARZINOPHILIN
CARZINOPHILIN A
CASSIA OIL
CATALASE from MICROCOCCUS LYSODEIKTICUS
CATECHIN
CATECHOL
D-CATECHOL
CEPHALOTHIN
CESIUM CARBONATE
CESIUM CHLORIDE
CESIUM(I) NITRATE (1:1)
CESIUM SULFATE
CHALCONE
CHAMOMILE
CHARTREUSIN
CHENODESOXYCHOLIC ACID
CHLIDITHANE
CHLORACETONE
CHLORACETONITRILE
CHLORAL
CHLORAL HYDRATE
2-CHLORALLYLDIETHYLDITHIOCARBAMATE
CHLORAMBUCIL
CHLORAMBUCIL SODIUM SALT
CHLORAMIDE
CHLORAMINET
CHLORAMPHENICOL
((+)-threo-CHLORAMPHENICOL
CHLORAMPHENICOL MONOSUCCINATE SODIUM SALT
CHLORAZEPATE DIPOTASSIUM
CHLORDANE
CHLORFENVINFOS
CHLORHEXIDINE DIGLUCONATE
CHLORIMIPRAMINE HYDROCHLORIDE
CHLORINATED CAMPHENE
CHLORINE
CHLORINE DIOXIDE
2-CHLOROACETALDEHYDE
2-CHLOROACETAMIDE
4'-CHLOROACETANILIDE
CHLOROACETIC ACID
A-CHLOROACETOPHENONE
4'-CHLOROACETYLACETANILIDE
4'-(2-CHLORO-9-ACRIDINYLAMINO)METHANESULFONANILIDE
4'-(3-CHLORO-9-ACRIDINYLAMINO)METHANESULFONANILIDE
2-CHLOROACROLEIN
B-CHLOROALLYLALCOHOL
1-(3-CHLOROALLYL)-3,5,7-TRIAZA-1-AZONIAADAMANTANECHLORIDE
2-CHLORO-4'-AMINODIPHENYL ETHER
p-CHLORO-o-AMINOPHENOL
2-CHLOROANILINE
3-CHLOROANILINE
4-CHLOROANILINE
CHLOROARSENOL
1-CHLOROAZIRIDINE
N-CHLOROAZIRIDINE
10-CHLORO-1,2-BENZANTHRACENE
CHLOROBENZENE
5-CHLORO-1,3-BENZENEDIAMINE
P-CHLOROBENZOTRIFLUORIDE
o-CHLOROBENZYLIDENEMALONONITRILE
1-p-CHLOROBENZYL-lH-INDAZOLE-3-CARBOXYLIC ACID
1-CHLORO-2-BROMOETHANE
CHLOROBROMOMETHANE
1-CHLOROBUTADIENE
1-CHLORO-2-BUTENE
2-CHLORO-2-BUTENE
3-CHLORO-1-BUTENE
6-CHLORO-9-((2-(2-CHLOROETHYL)AMINO)ETHYL)AMINO)-2-METHOXYPYRAZIDINE
2-CHLORO-N-(2-CHLOROETHYL)-N-METHYLETHANAMINE-N-OXIDE
2-CHLORO-N-(2-CHLOROETHYL)-N-METHYLETHANAMINE-N-OXIDE HYDROCHLORIDE
9-CHLORO-10-CHLOROMETHYLANTHRACENE
3-CHLORO-4-(CHLOROMETHYL)-5-HYDROXY-2(5H)-FURANONE
4-CHLORO-m-CRESOL
4-CHLORO-o-CRESOL
CHLOROCYCLOCLYCLINE
A-CHLOROCYCLOHEXANONE
3-CHLORO-1-CYCLOHEXENE
2-CHLORO-9-(2-DEOXY-2-FLUORO-b-d-ARABINOFURANOSYL)ADENINE
5-CHLORO-2'-DEOXYURIDINE
4-CHLORO-1,2-DIAMINOBENZENE
CHLORODIBROMOMETHANE
3-CHLORO-4-DICHLOROMETHYL-5-HYDROXY-2(5H)-FURANONE
2-CHLORO-3-(3,4-DICHLOROPHENYL)-l-ISOPROPYL-4-METHYL-IMIDAZOLIUM
8-CHLORO-2-(2-(DIETHYLAMINO)ETHYL)-2H-(l)-BENZOTHIOPYRANO(413,2-cd)INDAZ
8-CHLORO-2-(2-(DIETHYLAMINO)ETHYL)-2H-(l)BENZOTHIOPYRANO(4,3,2-cd)INDAZO
6-CHLORO-9-((4-(DIETHYLAMINO)-l-METHYLBUTYL)AMINO)-2-METHOXYACRIDINE DI
2-CHLORO-2',6'-DIETHYL-N-(BUTOXYMETHYL)ACETANILIDE
CHLORODIETHYLENETRIAMINE PLATINUM(II) CHLORIDE
2-CHLORO-2',6'-DIETHYL-N-(METHOXYMETHYL)ACETANILIDE
1-CHLORO-1,1-DIFLUOROETHANE
CHLORODIFLUOROMETHANE
6-CHLORO-3,4-DIHYDRO-2H-1,2,4-BENZOTHIADIAZINE-7-SULFONAMIDE- 1,1-DIOXID
7-CHLORO-1,3-DIHYDRO-3-HYDROXY-5-PHENYL-2H-1,4-BENZODIAZEPINE-2-ONE
7-CHLORO-2,3-DIHYDRO-1-METHYL-5-PHENYL-1H-1,4-BENZODIAZEPINE
7-CHLORO-1,3-DIHYDRO-5-PHENYL-2H-1,4-BENZODIAZEPIN-2-ONE
3-CHLORO-N,N-DIMETHYL-1-PROPYLAMINE HYDROCHLORIDE
4'-CHLORO-2,2'-DIMETHYLRASILANILIDE
2-CHLORO-4,6-DINITROANILINE
CHLORODINITROBENZENE
1-CHLORO-2,4-DINITROBENZENE
CHLORODIPHENYL
4-CHLORODIPHENYL
2-CHLOROETHANOL PHOSPHATE
2-CHLOROETHYLMINE HYDROCHLORIDE
7-((2-CHLOROETHYLAMINO)ETHYL)AMINO)-BENZ(c)ACRIDINE DIHYDROCHLORID
9-((3-CHLOROETHYLAMINO)PROPYL)AMINO)ACRIDINE DIHYDROCHLORIDE HYD
7-((3-CHLOROETHYLAMINO)PROPYL)AMINO)ACRIDINE DIHYDROCHLORID
7-((3-CHLOROETHYLAMINO)PROPYL)AMINO)ACRIDINE DIHYDROCHLORID
7-((3-CHLOROETHYLAMINO)PROPYL)AMINO)ACRIDINE DIHYDROCHLORID
10-((2-CHLOROETHYLAMINO)PROPYL)AMINO)ACRIDINE DIHYDROCHLORID
4-((3-CHLOROETHYLAMINO)PROPYL)AMINO)ACRIDINE DIHYDROCHLORID
6-METHOXYACRIDINE DIHY
S-((2-CHLOROETHYL)CARBAMOYL)GLUTATHIONE
2-CHLOROETHYL CHLOROFORMATE
1-(2-CHLOROETHYL)-3-CYCLOHEXYL-1-NITROSOUREA
N-(2-CHLOROETHYL)DIETHYLAMINE
1-(2-CHLOROETHYL)-3-(2,6-DIOXO-3-PIPERIDYL)-l-NITROSOUREA
CHLOROETHYLENE OXIDE
2-(2-CHLOROETHYL)ETHYLAMINO)-N-(3-(6-CHLORO-2-METHOXY-9-ACRIDINYL)AMI
9-((3-CHLOROETHYLAMINO)ETHYLAMINO)ACRIDINE DIHYDROCHLORID
7-((3-CHLOROETHYLAMINO)ETHYLAMINO)ACRIDINE DIHYDROCHLORID
9-((3-CHLOROETHYLAMINO)ETHYLAMINO)ACRIDINE DIHYDROCHLORID
7-((3-CHLOROETHYLAMINO)ETHYLAMINO)ACRIDINE DIHYDROCHLORID
10-((2-CHLOROETHYLAMINO)PROPYL)AMINO)ACRIDINE DIHYDROCHLORID
N-(2-CHLOROETHYL)-3-(trans-2-HYDROXYCYCLOHEXYL)-l-NITROSOUREA
1-(2-CHLOROETHYL)-3-(2-HYDROXYETHYL)-l-NITROSOUREA
1-(2-CHLOROETHYL)-3-(trans-2-HYDROXYCYCLOHEXYL)-l-NITROSOUREA
2-CHLOROETHYL-2-HYDROXYETHYL SULFIDE
CHLOROETHYL MERCURY
2-CHLOROETHYL METHANESULFONATE
1-(2-CHLOROETHYL)-3-(4-METHYLICYCLOHEXYL)-1-NITROSOUREA
4-(2-CHLOROETHYL)MORPHOLINE
4-(2-CHLOROETHYL)MORPHOLINE HYDROCHLORIDE
N-(b-CHLOROETHYL)-N-NITROSOACETAMIDE
1-(2-CHLOROETHYL)-1-NITROSOUREA
2-CHLOROETHYL-N-NITROSOURETHANE
1-(2-CHLOROETHYL)PIPERIDINE HYDROCHLORIDE
7-(3-(2-CHLOROETHYL-n-PROPYLAMINO)PROPYLAMINO)PROPYLAMINO)BENZO(b)(1,10)-PHENATHR
CHLOROFUOROMETHANE
2-CHLORO-1-FLUORO-4-NITROBENZENE
CHLOROFORM
4-CHLORO-N-FORMYL-o-TOLUIDINE
4-CHLORO-N-FURFURYL-5-SULFAMOYLANTHRANILIC ACID
CHLOROGENIC ACID
(-)-N-((5-CHLORO-8-HYDROXY-3-METHYL-l-OXO-7-ISOCROMANYL)CARBONYL)-3-P
5-CHLORO-2-((2-HYDROXY-1-NAPHTHYL)AZO)-p-TOLUENE SULFONIC ACID, BARIUM
5-6HLORO-7-IODO-8-QUINOLINOL
2-CHLORO-N-ISOPROPYLACETANILIDE
2-((3-((6-CHLORO-2-METHOXY-9-ACRIDINYL)AMINO))PROPYL)ETHYLAMINOETHANOL
7-CHLOROMETHYL BENZ(A)ANTHRACENE
6-CHLOROMETHYL BENZO(A)PYRENE
4-CHLOROMETHYLBIPHENYL
3'-CHLORO-4'-METHYL-4-DIMETHYLMAMINOAZOBENZENE
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE
10-CHLOROMETHYL-9-METHYLANTHRACENE
7-CHLOROETHYL-12-METHYL BENZ(A)ANTHRACENE
CHLOROMETHYL METHYL ETHER
7-CHLORO-1-METHYL-4-((p-((l-METHYLPYRIDINIUM-4-YL)AMINO)PHENYL)CARBAR(4-CHLORO-
2-METHYLPHENOXY)ACETICACID
4-CHLORO-2-METHYLPHENOXY-a-PROPIONIC ACID
N-(3-CHLORO-4-METHYLPHENYL)-N',N'-DIMETHYLUREA
3-CHLORO-2-METHYLPROPENE
3-(CHLOROMETHYL) PYRIDINE HYDROCHLORIDE
1-CHLORONAPHTHALENE
CHLORONEB
2-CHLORO-4-NITROANILINE
CHLORONITROBENZENE
4-CHLORO-3-NITROBENZOIC ACID
1-((2-CHLORO-4-NITROPHENYL)AZO)-2-NAPHTHOL
1-CHLORO-1-NITROPROPANE
6-CHLORO-4-NITROQUINOLINE-1-OXIDE
7-CHLORO-4-NITROQUINOLIN-1-OXIDE
3-CHLORONITROSOPIPERIDINE
4-CHLORONITROSOPIPERIDINE
CHLORO-PDMT
CHLOROPHENAMIDINE
2-CHLOROPHENOL
3-CHLOROPHENOL
4-CHLOROPHENOL
CHLOROPHENOLS
2-CHLOROPHENOTHIAZINE
4-(3-(2-CHLOROPHENOTHIAZIN-10-YL)PROPYL)-l-PIPERAZINEETHANOL
P-CHLOROPHENOXYACETIC ACID
1-(4-CHLOROPHENOXY)-3,3-DIMETHYL-l-(11214-TRIAZOL-1-YL)-2-BUTAN-2-ONE
3-(p-(p-CHLOROPHENOXY)PHENYL)-1,1-DIMETHYLUREA
4-CHLOROPHENYLAMINE HYDROCHLORIDE
4-CHLORO-a-PHENYL-o-CRESOL
1-(4-CHLOROPHENYL)-3-(2,6-DIFLUOROBENZOYL)UREA
3-(p-CHLOROPHENYL)-1,1-DIMETHYLUREA
4-CHLORO-m-PHENYLENEDIAMINE
(4-CHLORO-o-PHENYLENEDIAMINE)DICHLOROPLATINUM(II)
4-CHLOROPHENYL GLYCIDYL ETHER
N-3-CHLOROPHENYLISOPROPYL CARBAMATE
2-(o-CHLOROPHENYL)-2-(METHYLAMINO)CYCLOHEXANONE HYDROCHLORIDE
o-CHLOROPHENYL METHYL CARBAMATE
1-(p-CHLOROPHENYSULFONYL)-3-PROPYLUREA
p-CHLOROPHENYL-2,4,5-TRICHLOROPHENYLSULFONE
1-CHLOROPIPERIDINE
CHLOROPLATINIC ACID
CHLOROPROMAZINE
CHLOROPROMAZINE HYDROCHLORIDE
3-CHLOROPROPANOL
2-CHLOROPROPANE
1-CHLORO-2-PROpanol with 2-CHLORO-1-PROpanol
2-CHLORO-1-PROPENE
cis-l-CHLOROPROPENE OXIDE
trans-l-CHLOROPROPENE OXIDE
3-CHLOROPROPIONIC ACID
9-(2-(((2-CHLOROPROPYL)AMINO)ETHYL)AMINO)-2-METHOXYACRIDINE DIHYDROCH
6-CHLOROPURINE
2-CHLOROpyRIDINE
3-CHLOROpyRIDINE
CHLOROQUINE
CHLOROQUINE DIPHOSPHATE
5-CHLORO-8-QUINOLINOL
3-CHLOROSTYRENE OXIDE
3-CHLORO-o-TOLUIDINE
2-CHLORO-p-TOLUIDINE
3-CHLORO-p-TOLUIDINE
4-CHLORO-o-TOLUIDINE
6-CHLORO-o-TOLUIDINE
4-CHLORO-2-TOLUIDINE HYDROCHLORIDE
CHLOROTRIBUTYLSTANNANE
2-CHLORO-6-(TRICHLOROMETHYL)PYRIDINE
2-CHLOROTRIETHYLAMINE HYDROCHLORIDE
CHLORO(TRIETHYLPHOSPHINE)GOLD
2-CHLORO-5-(TRIFLUOROMETHYL)PYRIDINE
CHLOROTRIMETHYLSTANNANE
(4-CHLORO-6-(2,3-XYLIDINO)-2-PYRIMIDINYLTHIO)ACETICACID
CHLOROZOTOCIN
CHLORPHENTERMINE
g-(4-(p-CHLORPHENYL)-4-HYDROXIPIPERIDINO)-p-FLUORBUTYROPHENONE
CHLORPYRIFOS
CHOLESTEROL
CHOLIC ACID
CHOLINE DICHLORIDE
CHOLINE HYDROCHLORIDE
CHORIONIC GONADOTROPIN
CHROMACID FAST RED 3B
CHROME ALUM (DODECAHYDRATE)
CHROMIC ACETATE
CHROMIC(VI) ACID
CHROMIC CHLORIDE STEARATE
CHROMITE (mineral)
CHROMIUM
CHROMIUM CHLORIDE
CHROMIUM(II) CHLORIDE (1:2)
CHROMIUM HYDROXIDE SULFATE
CHROMIUM, ION (CRICH067BO3!CH067BO+)
CHROMIUM(6+) ION
CHROMIUM(III) NITRATE
CHROMIUM(III) NITRATE, NONAHYDRATE (1:3:9)
CHROMIUM(III) OXIDE (2:3)
CHROMIUM(VI) OXIDE (1:3)
CHROMIUM (111) SULFATE (2-3)
CHROMIUM TRICHLORIDE HEXAHYDRATE
CHROMIUM(6+)ZINC OXIDE HYDRATE (1:2:6:1)
CHROMOMYCIN A3
CHROMYL CHLORIDE
CHRYSANTHEMIC ACID
CHRYSAAROBIN
6-CHRYSENAMINE
CHRYSENE
syn-CHRYSENE-3,4-DIOL 1,2-OXIDE
CHRYSENE-5,6-EPOXIDE
C.I. 45405
C.I. ACID BLUE 62 (8CI)
C.I. ACID ORANGE 7, MONOSODIUM SALT
C.I. ACID RED 1, DISODIUM SALT
C.I. ACID RED 85, DISODIUM SALT
C.1 ACID RED 97, DISODIUM SALT (8CI)
C.I. ACID RED 114, DISODIUM SALT
C.1 ACID YELLOW 3
C.I. ACID YELLOW 42 DISODIUM SALT
C.I. BASIC ORANGE 1
C.I. BASIC RED 29
C.I. DIRECT BLACK 17, MONOSODIUM SALT
C.I. DIRECT BLACK 19:1
C.I. DIRECT BLACK 19, DISODIUM SALT
C.I. DIRECT BLUE 1, TETRASODIUM SALT
C.I. DIRECT BLUE 2
C.I. DIRECT BLUE 6, TETRASODIUM SALT
C.I. DIRECT BLUE 14, TETRASODIUM SALT
C.I. DIRECT BLUE 15, TETRASODIUM SALT
C.I. DIRECT BLUE 218
C.I. DIRECT BROWN
C.I. DIRECT BROWN 1A, DISODIUM SALT
C.I. DIRECT BROWN 31
C.I. DIRECT GREEN 1
C.I. DIRECT RED 39
C.I. DIRECT RED 46, TETRASODIUM SALT
C.I. DIRECT RED 81
C.I. DISPERSE BLUE 27
C.I. DISPERSE RED 13
C.I. FLUORESCENT BRIGHTENER 260
C.I. FOOD BROWN 1
CIGARETTE REFINED TAR
C.I. MORDANT BLACK 3, MONOSODIUM SALT
C.I. NATURAL RED 25
CINNAMALDEHYDE
CINNAMALDEHYDE, (E)
CINNAMON LEAF OIL
CINNAMYL ALCOHOL
C.I. PIGMENT GREEN 36
C.I. PIGMENT ORANGE 13
C.I. PIGMENT RED 53
C.I. PIGMENT RED 57, DISODIUM SALT (8CI)
CIPROFIBRATE
C.I. RED 33, DISODIUM SALT
CIROLEMYCIN
C.I. SOLVENTBLACK5
C.I. SOLVENTYELLOW33
CITRAL DIETHYL ACETAL
CITRININ
CITRONELLA OIL
C.I. VAT ORANGE 7
CLAVACIN
CLIVORINE
CLOFIBRIC ACID
racemic-CLOMIPHENE CITRATE
CLOPHEN A-50
CLOVE BUD OIL
CLOZAPINE
COAL FLY ASH
COAL TAR
COAL TAR CREOSOTE
COBALT ACETATE TETRAHYDRATE
COBALT CARBONATE HYDROXIDE
COBALT(II) CHLORIDE
COBALT DIACETATE
COBALT MOLYBDATE
COBALT(II) SULFATE (1:1)
COBALT(II) SULFATE (1:1), HEPTAHYDRATE
COBALT(II) SULFIDE
COCAINE HYDROCHLORIDE
COCHINEAL (dye)
COCONUTALDEHYDE
CODEHYDROGENASE I
CODEINE PHOSPHATE
CODEINE SULFATE
COFFEE
COKE OVEN EMISSIONS
COLCHICINE
CONCANAVALIN A
COPPER ASCORBATE
COPPER(I) CHLORIDE
COPPER(II) CHLORIDE (1:2)
COPPER DIMETHYL DITHIOCARBAMATE
COPPER(II) NITRATE, TRIHYDRATE (1:2:3)
COPPER(II) SULFATE (1:1)
COPPER(II) SULFATE PENTAHYDRATE (1:1:5)
COPPER(I) SULFIDE
COPPER (II) SULFIDE
COREXIT9527
CORIANDER OIL
CORONENE
CORTICOSTERONE
CORTISOL
CORTISONE
CORTISONE-21-ACETATE
COSTUS OIL
COUMAPHOS
COUMARIN
COUMERMYCIN AL
m-CRESOL
o-CRESOL
p-CRESOL
2,3-CRESOTIC ACID
CROTOCIN
CROTONALDEHYDE
(E)-CROTONALDEHYDE
CROTONE OIL
CROTOXYPHOS
CRUDE SHALE OILS
CUMENE
CUMIN OIL
CUMOESTEROL
CUPRIZONE
CURCUMIN
CYANIDOL
4-CYANOANILINE
CYANOMORPHOLINOADRIAMYCIN
CYCASIN
CYCLIC AMP DIBUTYRATE
CYCLOBUTYL-N-(2-FLUORENYL)FORMAMIDE
CLOCYTIDINE HYDROCHLORIDE
CYCLOGUANYL
1,3,5-CYCLOHEPTATRIENE
CYCLOHEXANAMINE HYDROCHLORIDE
CYCLOHEXANOL
CYCLOHEXANONE
CYCLOHEXENE OXIDE
2-CYCLOHEXEN-1-ONE
CYCLOHEXIMIDE
CYCLOHEXYLAMINE
N,N'-(1,4-CYCLOHEXYLENEDIMETHYLENE)BIS(2-(1- AZIRIDINYL)ACETAMIDE)
CYCLOHEXYLISOCYANATE
CYCLOOCTAFLUOROBUTANE
4H-CYCLOPENTA(deoCHRYSENE
3H-CYCLOPENTA(c)PHENANTHRENE
4H-CYCLOPENTA(de@PHENANTHRENE
CYCLOPENTA(cd)PYRENE
CYCLOPENTA(cd)PYRENE-3,4-OXIDE
(+)-l-(2-(l-CYCLOPENTEN-1-YL)PHENOXY)-3-((1,1-DIMETHYLETHYL)AMINO)-2-PROP
CYCLOPHOSPHAMIDE HYDRATE
CYCLOPHOSPHORAMIDE
A-CYCLOPIAZONIC ACID
CYCLOPROPANE
5-(CYCLOPROPYLCARBONYL)-2-BENZIMIDAZOLECARBAMIC ACID METHYL ESTER
N-CYCLOPROPYL METHYL NOROXYMORPHONE
CYCLOSERINE
CYCLOSPORIN A
CYPROSTERONE ACETATE
l-CYSTEINE
l-CYSTEINEHYDROCHLORIDE
CYTEMENA
CYTIDINE MONOPHOSPHATE
CYTIDINE-5'-TRIPHOSPHATE
CYTOCHALASIN B
CYTOCHROME C
CYTOSINE RIBOSIDE
CYTOSINIMINE
CYTOXAL ALCOHOL
CYTOXYLAMINE
2,4-D
DACARBAZINE
DAUNOMYCIN
DAUNOMYCIN HYDROCHLORIDE
cis-DCPO
cis-DDCP
trans(-)-DDCP
DDT
DECACHLOOROBI-2,4-CYCLOPENTADIEN-1-YL
DECAMETHRINE
1-DECANAL
DECANOIC ACID
10-DECARBAMOYLMITOMYCINC
DEFEROXAMINE
DEHYDROHELIOTRIDINE
1-DEHYDRO-17-a-METHYLTESTOSTERONE
DEHYDRORETRONECINE
DEHYDROSTILBESTROL
DEMEROL HYDROCHLORIDE
4-DEMETHOXYADRIAMYCIN
4-BEMETHOXYDAUNOMYCIN
DEMETON
DEMETON-0 + DEMETON-S
DEMETON-0-METHYL SULFOXIDE
DEMETON-S-METHYL
DEMETON-S-METHYL-SULPHONE
DEOXYADENOSINE
3'-DEOXYADENOSINE
DEOXYCHOLATIC ACID
DEOXYCYTIDINE
2'-DEOXY-5-FLUOROURIDINE
d-3-DEOXYGLUCOSONE
2'-DEOXYGUANOSINE
2'-DEOXY-5-IODOURIDINE
7-DEOXYNOGALAROL
12-DEOXYPHORBOL-13-PHENYLACETATE
12-DEOXYPHORBOL-13-PHENYLACETATE-20-ACETATE
4-DEOXYPYRIDOXL
1-DEOXYPYRROMYCIN
DEOXYRIBONUCLEIC ACID
2-DEOXYURIDINE
6-DEOXYVERSICOLORIN A
2-DESOXYPHENOBARBITAL
2-DEUTERO-2-NITROPROPANE
DEXTROMETHADONE
a-DFMO
DHAO DIACETATE
2,4-DIACETAMIDO-6-(5-NITRO-2-FURYL)-s-TRIAZINE
DIACETYL DIOXIME
DIALLATE
DIALLYL PHTHALATE
DIAMINIDE MALEATE
3,6-DIAMINOACRIDINE SULPHATE (1: 1)
3,6-DIAMINOACRIDINIUM
2,4-DIAMINOANISOLE
2,4-DIAMINOANISOLE DIHYDROCHLORIDE
2,4-DIAMINOANISOLE SULPHATE
1,2-DIAMINOANTHRAQUINONE
1,4-DIAMINOANTHRAQUINONE
1,5-DIAMINOANTHRAQUINONE
1,5-DIAMINOANTHRARUFIN
DIAMINOAZOBENZENE
2',4-DIAMINOBENZANILIDE
3,5-DIAMINOBENZOIC ACID
2,4-DIAMINO-5-(p-(p-((2,4-DIAMINO-l-ETHYLPYRIMIDINIUM-5-YL)PHENYL)CARBAM
2,4-DIAMINO-5-(p-((2,4-DIAMINO-1-METHYLPYRIMIDINIUM-5-YL)PHENYL)CARBAM
1,4-DIAMINO-2,6-DICHLOROBENZENE
1,4-DIAMINO-2,3-DIHYDROANTHRAQUINONE
3,6-DIAMINO-2,7-DIMETHYLACRIDINE
3,6-DIAMINO-2,7-DIMETHYLACRIDINE HYDROCHLORIDE
2,6-DIAMINO-3,4-DIMETHYL-7-OXOPYRANO(4,3-G)BENZIMIDAZOLE
2,7-DIAMINO-3,8-DIMETHYLPHENAZINE
2,7-DIAMINO-10-ETHYL-9-PHENYLPHENANTHRIDINIUM BROMIDE
4-((4-(((4-(2,4-DIAMINO-1-PROPYLPYRIMIDINIUM-5-YL)PHENYL)AMINO)CARBONYL)PH
3,6-DIAMINO-10-METHYLACRIDINIUM CHLORIDE with 3,6-ACRIDINEDIAMINE
2,4-DIAMINO-5-METHYL-6-sec-BUTYLPHENYDRODICYCLOHEXANYLPRIMIDINE
N-(4-(((2,4-DIAMINO-5-METHYL-6-QUINAZOLINYLMETHYL)AMINO)BENZOYL)-l-ASPAR
1,4-DIAMINO-5-NITRO ANTHRAQUINONE
4,6-DIAMINO-2-(5-NITRO-2-FURYL)-S-TRIAZINE
2,4-DIAMINOPHENOL
2-(2,4-DIAMINOETHOXY)ETHANOL DIHYDROCHLORIDE
4-(((4-(((2,4-DIAMINO-1-PROPYPYRIMIDINIUM-5-YL)PHENYL)AMINO)CARBONYL)P
DIAMINOPROPYLDITIONETRAMETHYLENEDIAMINE
2,6-DIAMINOPYRIDINE
3,4'-DIAMINOSTILBENE
2,6-DIAMINOTOLUENE DIHYDROCHLORIDE
2,5-DIAMINOTOLUENE SULFATE
3,5-DIAMINO-s-TRIAZOLE
cis-DIAMMINEDINITRATO PLATINUM (11)
DI-N-AMYLNITROSAMINE
DIANHYDROGALACTITOL
DIANISIDINE
DIANISIDINE DIISOCYANATE
DIAQUODIAMMINEPLATINUM DINITRATE
DIAZEPAM
DIAZIDO ETHIDIUM
DIAZINON
DIAZOACETYLGLYCINE ETHYL ESTER
N-(DIAZOACETYLGlycine)HYDRAZINE
DIAZOMETHANE
6-DIAZO-5-OXONORLEUCINE
DIAZOURACIL
DIBENZ(a,e)ACEANTHRYLENE
DIBENZ(a,h)ACRIDINE  
DIBENZ(alj)ACRIDINE  
DIBENZAMINE  
DIBENZ(a,h)ANTHRACENE  
DIBENZ(a,j)ANTHRACENE 1,2:5,6-  
DIBENZ(a,h)ANTHRACEN-5-OL  
7H-DIBENZO(c,g)CARBAZOLE  
DIBENZO(b,de)CHRYSENE  
DIBENZO(def,p)CHRYSENE  
DIBENZOP-DIOXIN  
DIBENZOFURAN  
2-DIBENZOFURANAMINE  
DIBENZYLINE HYDROCHLORIDE  
DIBROMODULCITOL  
DIBROMOACETONITRILE  
1,4-DIBROMOBUTANE  
1,2-DIBROMO-3-CHLOROPROPANE  
1,2-DIBROMO-4-(1,2-DIBROMOETHYL)CYCLOHEXANE  
1,1-DIBROMOETHANE  
(1,2-DIBROMOETHYL)BENZENE  
1,2-DIBROMOETHYLENE  
DIBROMOFLUORESCENE  
1,6-DIBROMOHXANE  
1,6-DIBROMOMANNITOL  
DIBROMOMETHANE  
1,2-DIBROMO-2-METHYLPROPANE  
DIBROMONEOPENTYL GLYCOL  
3,4-DIBROMONITROSOPIPERIDINE  
1,5-DIBROMOPENTANE  
1,2-DIBROMOPROPANE  
2,3-DIBROMOPROPANE  
1,3-DIBROMO-2-PROPANOL  
2,3-DIBROMOPROPANOL  
2,3-DIBROMOPROPENE  
2,3-DIBROMOPROPIONALDEHYDE  
2,3-DIBROMOPROPIONIC ACID  
2,3-DIBROMOPROPYL ACRYLATE  
5,7-DIBROMO-8-QUINOLINOL  
n-DIBUTYLAMINE  
2,5-Di-tert-BUTYL-1,4-BENZOQUINONE  
DIBUTYLDICHLOROGERMANE  
DIBUTYLDICHLOROSTANNANE  
1,1-DIBUTYLHYDRAZINE  
1,1-DIBUTYLHYDRAZINEOXALATE  
1,2-DIBUTYLHYDRAZINE OXALATE  
3,5-Di-tert-BUTYL-4-HYDROXYBENZOIC ACID  
DIBUTYL PHTHALATE  
DIBUTYLTHIOXOSTANNANE  
DICHLORACETIC ACID  
1-(2,4-DICHLOROBENZYL)INDAZOLE-3-CARBOXYLIC ACID
5,7-DICHLOR-8-HYDROXYCHINOLIN
2,2-DICHLOROACETALDEHYDE
CARBOMETHOXIDICHLORACETONITRILE
8-DICHLOROACETOXY-9-HYDROXY-8,9-DIHYDRO-AFLATOXIN BI
DICHLOROACETYL CHLORIDE
DICHLOROACETYLENE
2,4-DICHLOROANILINE
3,4-DICHLOROANILINE
4,4'-DICHLOROAZOXYBENZENE
M-DICHLOROBENZENE
P-DICHLOROBENZENE
2,2'-DICHLOROBENZIDINE
3',3'-DICHLOROBENZIDINE
3,3'-DICHLOROBENZIDINEDIHYDROCHLORIDE
4,4'-DICHLOROBENZILIC ACID
2,5-DICHLOROBENZONITRILE
2,6-DICHLOROBENZONITRILE
7-((3,4-DICHLOROBENZYL)AMINOACTINOMYCIN D
4,4'-DICHLOROBIPHENYL
2,2'-(3,3'-DICHLORO(1,1'-BIPHENYL)-4,4'-DIYL)-BIS(3-OXO-N-PHENYL)BUTA
cis-DICHLOROBIS(PYRROLIDINE)PLATINUM(II)
1,4-DICHLORO-2-BUTENE
3,4-DICHLORO-1-BUTENE
2,4-DICHLORO-6-CHLORANILINO-s-TRIAZINE
cis-DICHLORODIAMMINEPLATINUM(II)
2,2-DICHLORO-1,1-DIFLUOROETHYL METHYL ETHER
4,8-DICHLORO-1,5-DIHYDROXYANTHRAQUINONE
1,3-DICHLORO-5,5-DIMETHYL HYDANTOIN
DICHLORO(4,5-DIMETHYL-o-PHENYLENEDIAMMINE)PLATINUM(II)
cis-DICHLORO(DIPYRIDINE)PLATINUM(II)
1,4-DICHLORO-2,3-EPOXYBUTANE
2 2-DICHLOROETHANOL
2,2-DICHLOROETHENYL DIETHYL PHOSPHATE
DICHLORO(4-ETHOXY-0-PHENYLENEDIAMMINE)PLATINUM(II)
O,O-DI(2-CHLOROETHYL)-O-(3-CHLORO-4-METHYLCOUMARIN-7-YL) PHOSPHATE
cis-DICHLOROETHYLENE
1,2-DICHLOROETHYLENE
DICHLORO(ETHYLENEDIAMMINE)PLATINUM(II)
DICHLOROETHYL ETHER
DICHLOROFENTHION
N-(DICHLOROFUROMETHYLTHIO)-N',N'-DIMETHYL-N-PHENYLSULFAMIDE
4,5-DICHLOROGUAIACOL
3'S-DICHLOROMETHOTREXATE
DICHLORO(4-METHOXYCARBONYL-0-PHENYLENEDIAMMINE)PLATINUM(II)
DICHLORO(4-METHOXY-0-PHENYLENEDIAMMINE)PLATINUM(II)
DICHLORO(4-METHYL-o-PHENYLENEDIAMMINE)PLATINUM(II)
1,4-DICHLORO-2-NITROBENZENE
2,3-DICHLORONITROBENZENE
1,2-DICHLORO-4-NITROBENZENE
2,4-DICHLORO-4'-NITRODIPHENYL ETHER
1,1-DICHLORO-1-NITROETHANE
DICHLORO(4-NITRO-o-PHENYLENEDIAMINE)PLATINUM(II)
2',5-DICHLORO-4'-NITROSALICYLANILIDE
3,4-DICHLORO-N-NITROSOCARBANILIC ACID METHYL ESTER
2,2'-DICHLORO-N-NITROSODIPROPYLAMINE
3,4-DICHLORONITROSOPIPERIDINE
3,4-DICHLORO-N-NITROSOPYRROLIDINE
DICHLOOROXOVANADIUM
2,4-DICHLOROPHENOL
2,5-DICHLOROPHENOL
(2,4-DICHLOROPHENOX)ACETICACIDDIMETHYLAMINE
4-(2,4-DICHLOROPHENOX)BUTYRIC ACID
2-(214-DICHLOROPHENOXY) PROPIONIC ACID
cis-DICHLORO(o-PHENYLENEDIAMINE)PLATINUM(II)
4-(3,4-DICHLOROPHENYL)-I -METHOXYMETHYLUREA
DICHLOOROPANE
1,3-DICHLOROPROPANE
DICHLOOROPROPANE-DICHLOROPROPENE MIXTURE
1,3-DICHLORO-2-PROPAHOL
2,3-DICHLOROPROPANOL
1,1-DICHLOROPROPANONE
1,1-DICHLORO-1-PROPENE
1,2-DICHLOROPROPENE
1,3-DICHLOROPROPENE
cis-1,3-DICHLOROPROPENE
tans-1,3-DICHLOROPROPENE
2,3-DICHLOROPROPENE
tans-1,3-DICHLOROPROPENE OXIDE
2,3-DICHLORO-2-PROPEN-1-OL
2,3-DICHLORO PROPIONALDEHYDE
DICHLOOROPRIONANILIDE
a,a-DICHLOROPROPIONIC ACID SODIUM SALT
4,5-DICHLOROPYROCATECHOL
4,7-DICHLOROQUINOLINE
5,6-DICHLORO-1 -b-d-RIBOFURANOSYLBENZIMIDAZONE
DICHLOORO(4,5,6-TRICHLORO-o-PHENYLENEDIAMINE)PLATINUM(II)
S-DICHLOROVINYL-1-CYSTEINE
a a‘DICHLORO-m-XYLENE
a,a'-DICHLORO-o-XYLENE
a,a'-DICHLORO-p-XYLENE
DICHLOOROS
DICLORALUREA
DICOFERIN
DICROTOPHOS
cis -DICYCLOBUTYLAMMINEDICHLOROPLATINUM(ii)
DICYCLOBUTYLAMMINEDICH
N,N-DICYCLOHEXYLAMINE
cis-DICYCLOHEXYLAMMINEDICHLOROPLATINUM(ii)
DICYCLOHEXYL THIOUREA
DICYCLOPENTADIENE
DICYCLOPENTADIENYLDICHLOROTITANIUM
DIELDRIN
dl-DIEPOXYBUTANE
meso-1,2 3,4-DIEPOXYBUTANE
1,2:5,6-DIEPOXYHEXANE
1,2,3,4-DIEPOXY-2-METHYL BUTANE
1,2:7,8-DIEPOXYOCTANE
1,2,4,5-DIEPOXYPENTANE
DIESEL EXHAUST PARTICLES
DIETHANOLAMMONIUM MALEIC HYDRAZIDE
DIETHAZINE HYDROCHLORIDE
3,3-DIETHOXYPROPENE
DIETHYLAMINE
2-(DIETHYLAMINO)-2‘,6‘-ACETOXYLIDIDE
3-(DIETHYLAMINO)-7-((p-(DIMETHYLAMINO)PHENYL)AZO)-5-PHENYLPHENAZINUM
1-(2′-DIETHYLAMINOETHYL)ETHYLAMINO-4-METHYLTHIOXANTHENONE
2-DIETHYLAMINO-6-METHYLPRIMIDIN-4-YL DIETHYLPHOSPHOROTHIONATE
2-DIETHYLAMINO-6-METHYLPRIMIDIN-4-YL DIMETHYL PHOSPHOROTHIONATE
3-(DIETHYLAMINO)PHENOL
3-DIETHYLAMINO-5H-PYRIDO(4,3-b)INDOLE
(6-(DIETHYLAMINO)-3H-XANTEN-3-YLIDENE)DIETHYLAMMONIUM CHLORIDE
DIETHYLAMMONIUM CHLORIDE
DIETHYLAMMONIUM-2,5-DIHYDROXYBENZENE SULFONATE DIETHYLAMMONIUM
2,6-DIETHYLANILINE
DIETHYLCARBAMAZINE
DIETHYLPHENYL DICHLOOROETHANE
N,N-DIETHYL-N,N-DIPHENYLTIURAMDISULFIDE
DIETHYLTHIOCARBAMIC ACID
DIETHYLENE GLYCOL DIGLYCIDYL ETHER
O,O-DIETHYL-S-(N-ETHOXYCARBONYL-N-METHYLCARBAMOYL METHYL) PHOSPHOR
1,2-DIETHYLHYDRAZINE
DIETHYLHYDROXYLAMINE
DIETHYL KETONE
N,N-DIETHYLLYSERGAMIDE
DIETHYLMALEATE
DIETHYL MERCURY
2,3-DIETHYL-5-METHYL-6-METHYLMAMINOQUINOXALINE
1,1-DIETHYL-3-METHYL-3-NITROSOUREA
DIETHYL NITRAMINE
DIETHYL-4,4‘-O-PHENYLENEBIS(3-THIOALLOPHANATE)
DIETHYL-P-PHENYLENEDIAMINE
N,N‘-DIETHYL-p-PHENYLENEDIAMINE SULFATE
O,O-DIETHYL-0-PHENYLPHOSPHOROTHIOATE
DIETHYL PHTHALATE
3,3-DIETHYL-l-(m-PYRIDYL)TRIAZENE
a,a‘-DIETHYL-(E)-4,4‘-STILBENEDIOL BIS(DIHYDROGEN PHOSPHATE)
DIETHYLSTILBESTROL DIPROPIONATE
DIETHYLSTILBOESTROL-3,4-OXIDE
DIETHYL SULFATE
DIETHYLSULFONATE
1,3-DIETHYLTHIOUREA
DIETHYL-M-TOLUAMIDE
DIETHYLTRIAZENE
2,4-DIFLUOROANILINE
2,10-DIFLUOROBENZO(rst)PENTAPHENE
1,2-DIFLUOROETHANE
dl-a-DIFLUOROMETHYLMORNITHINE
2,4-DIFLUORONITROBENZENE
DIFURAN
DIGITONIN
DIGLYCIDYLANILINE
DIGLYCIDYL ETHER
DIGLYCIDYLHEXAHYDROPTHALATE
DIHYDANTOIN
1,4-DIHYDRAZINOPHTHALAZINE SULFATE
6,13-DIHYDROBENZO(e)(j)INDOLE
5,6-DIHYDRO-7H-BENZO(c)CARBAZOLE-8-CARBOXYLIC ACID-2-(DIETHYLAMINO)ETH
5,6-DIHYDRO-7H-BENZO(c)CARBAZOLE-9-CARBOXYLIC ACID-2-(DIETHYLAMINO) ET
5,6-DIHYDRO-7H-BENZO(c)CARBAZOLE-10-CARBOXYLIC ACID-2-(DIETHYLAMINO)ET
7,8-DIHYDROBENZO(a)PYRENE
9,10-DIHYDROBENZO(e)PYRENE
4,5-DIHYDROBENZOFLUORANTHENE-4,5-DIOL
1,2-DIHYDROCHRYSENE
DIHYDROCUMINYL ALDEHYDE
2,3-DIHYDRO-1 H-CYCLOPENTA(c)PHENANTHRENE
trans-10,11-DIHYDROBENZ(a,e)ACEANTHRYLENE-10,11-DIOL
3,4-DIHYDROBENZ(a,h)ANTHRACENE-3,4-DIOL trans-(-+)-
5,6-DIHYDROBENZ(a,h)ANTHRACENE
5,6-DIHYDROBENZ(a,j)ANTHRACENE
7,14-DIHYDROBENZ(a,h)ANTHRACENE
DIHYDRODIETHYLSTILBESTROL
1,4-DIHYDRO-6,8-DIFLUORO-1-ETHYL-4-OXO-7-(4-PYRIDINYL)3-OUINOLINECARBOX
trans-4,5-DIHYDROXYBENZO(a)PYRENE
9,10-DIHYDROBENZO(a)PYRENE
trans-9,10-DIHYDROBENZO(a)PYRENE (+)-trans-9,10-DIHYDRO-9,10-DIHYDROXYBENZO(a)PYRENE
trans-7,8-DIHYDROBENZO(a)PYRENE
7,8-DIHYDROXYBENZO(a)PYRENE-9,10-OXIDE
trans-1,2-DIHYDROBENZO(a)PYRENE
trans-3,4-DIHYDROBENZO(a)PYRENE
trans-3,4-DIHYDROXYBENZO(a)PYRENE
trans-8,9-DIHYDROXYBENZO(a)PYRENE
(+)-(IR,2S,3R,4R)-3,4-DIHYDRO-3,4-DIHYDROXY-1,2-EPOXYBENZO(a)ANTHRACENE
trans-1,2-DIHYDROBENZO(a)PYRENE
trans-5,6-DIHYDROBENZO(a)PYRENE
trans-8,9-DIHYDROBENZO(a)PYRENE
cis-2,3-DIHYDROBENZO(a)PYRENE
5,6-DIHYDRO-N-(3-(DIMETHYLAMINO)PROPYL)-1 H-DIBENZ(b,e)AZEPINE
10,11-DIHYDRO-5-(3-(DIMETHYLAMINO)PROPYL)-5H-DIBENZ(b,e)AZEPINE HYDROCHL
3,4-DIHYDRO-11,11-DIHYDROBENZO(a)PHENANTHRENE
16,17-DIHYDRO-11,17-DIMETHYLCYCLOPENTA(a)PHENANTHRENE
15,16-DIHYDRO-11,12-DIMETHYLCYCLOPENTA(a)PHENANTHREN-17-ONE
4,5-DIHYDRO-2,7-DINITROPYRENE
5 10-DIHYDRO-5,10-DIOXONAPHTHO(2,3-b-p-DITHIIN-2,3-DICARBONITRILE
1,2-DIHYDRO-1,2-EPOXYINDENO(1,2-3-cd)PYRENE
DIHYDROERGOTOXINE METHANE SULFONATE
15,16-DIHYDRO-11-ETHYLCYCLOPENTA(a)PHENANTHREN-17-ONE
4,5-DIHYDRO-2,7-DINITROPYRENE
5 10-DIHYDRO-5,10-DIOXONAPHTHO(2,3-b-p-DITHIIN-2,3-DICARBONITRILE
1,2-DIHYDRO-1,2-EPOXYINDENO(1,2-3-cd)PYRENE
15,16-DIHYDRO-11-ETHYLCYCLOPENTA(a)PHENANTHREN-17-ONE
4,5-DIHYDRO-2,7-DINITROPYRENE
5 10-DIHYDRO-5,10-DIOXONAPHTHO(2,3-b-p-DITHIIN-2,3-DICARBONITRILE
1,2-DIHYDRO-1,2-EPOXYINDENO(1,2-3-cd)PYRENE
11R,10S-DIHYDROXY-9S,8R-EPOXIDE-8,9,10,11-TETRAHYDROBENZ(a,h)ACRIDINE
11S,10R-DIHYDROXY-9S,8R-EPOXIDE-8,9,10,11-TETRAHYDROBENZ(a,h)ACRIDINE
11R,10S-DIHYDROXY-9R,8S-EPOXIDE-8,9,10,11-TETRAHYDRODIBENZ(a,h)ACRIDINE
11S,10R-DIHYDROXY-9R,8S-EPOXIDE-8,9,10,11-TETRAHYDRODIBENZ(a,h)ACRIDINE
(+)-trans-8-b,9-a-DIHYDROXY-10-a,ll-a-EPOXY-8,9,10,11-TETRAHYDROBENZ(a)ANTHR
(+)-trans-8-b,9-a-DIHYDROXY-10-b,ll-b-EPOXY-8,9,10,11-TETRAHYDROBENZ(a)ANTHR
R-4,T-5-DIHYDROXY-C-6,6A-EPOXY-4,5,6,6A-TETRAHYDROBENZO(J)FLUORANTHEN
R-4,T-5-DIHYDROXY-T-6,6A-EPOXY-4,5,6,6A-TETRAHYDROBENZO(J)FLUORANTHENE
(+)-cis-7,a,8,b-DIHYDROXY-9,a,10,a-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE
(-)-cis-7,b,8,a-DIHYDROXY-9,b,10,b-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE
7-b,8-a-DIHYDROXY-9-a,10-a-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE
(+)-7,b,8,a-DIHYDROXY-9,b,10,b-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE
(+)-9,b,10,a-DIHYDROXY-11,b,12,b-EPOXY-9,10,11,12-TETRAHYDROBENZO(e)PYRENE
(+)-l,b,2,a-DIHYDROXY-3,a,4,a-EPOXY-1,2,3,4-TETRAHYDROCHRYSENE
(+)-l,b,2,a-DIHYDROXY-3,b,4,b-EPOXY-1,2,3,4-TETRAHYDROCHRYSENE
(+)-l,b,2,a-DIHYDROXY-3,a,4,a-EPOXY-1,2,3,4-TETRAHYDRODIBENZ(a,h)PYRENE
(+)-l,b,2,a-DIHYDROXY-3,a,4,a-EPOXY-1,2,3,4-TETRAHYDROPHENANTHRENE
(+)-l,b,2,a-DIHYDROXY-3,a,4,a-EPOXY-1,2,3,4-TETRAHYDROTRIPHENYLENE
(+)-l,b,2,a-DIHYDROXY-3,a,4,a-EPOXY-1,2,3,4-TETRAHYDROTRIPHENYLENE
1,3-DIHYDROXY-2-ETHOXYMETHYLANTHRAQUINONE
1,8-DIHYDROXY-3-HYDROXYMETHYLANTHRAQUINONE
3,4-DIHYDROXY-a-((ISOPROPYLAMINO)METHYL)BENZYL ALCOHOL
2,2'-DIHYDROXY-4-METHOXYBENZOPHENONE
(E)-3,4-DIHYDROXY-7-METHYL-3,4-DIHYDROBENZ(a)ANTHRACENE-12-METHANOL
2,12-DIHYDROXY-4-METHYL-1 1,16-DIOXOSECENCANIUM
DIHYDROXYPHENYL-1-ALANINE
3,4-DIHYDROXYPHENYLGLYOXIME
l-(-)-3-(3,4-DIHYDROXYPHENYL)-2-METHYLALANINE
DI(2-HYDROXY-n-PROPYLM)AMINE
4-(2,3-DIHYDROXYPROPYLAMINO)-2-(5-NITRO-2-THIENYL)QUINAZOLINE
trans-9,b-10-DIHYDROXY-9,10,11,12-TETRAHYDROBENZO(e)PYRENE
trans-3,4-DIHYDROXY-1,2,3,4-TETRAHYDRODIBENZ(a,h)ANTHRACENE
cis-DIODO DIAMMINENUMI PLATIUM (11)
DIIDOHYDROXYQUIN
3,5-DIODO-4-OCTANOXYLXENZONITRILE
DIISOPROPYLAMINE DICLORACETATE
DIISOPROPYL HYDROGEN PHOSPHITE
N-DIISOPROPYLMTHIOCARBAMIC ACID S-2,3,3-TRICHLORO-2-PROPENYL ESTER
DILANTIN
DILLSEDOIL,EUROPEANTYPE
DIMATIF
DIMETHOATE OXYGEN ANALOG
2,4-DIMETHOXYANILINE
1,10-DIMETHOXY-6a-a-APORPHINE-2,9-DIOL
3,3'-DIMETHOXYBENZIDINE DIHYDROCHLORIDE
DIMETHOXY ETHYL PHTHALATE
1,2-DIMETHOXY-4-(2-FLUOROETHYL)BENZENE
1,2-DIMETHOXY-4-(2-FLUORO-2-PROPENYL)BENZENE
1-(2,5-DIMETHOXYPHENYL)-2-AMINOPROPANE
1-((2,5-DIMETHOXYPHENYL)AZO)-2-NAPHTHOL
3,3-DIMETHOXYPROPIONALDEHYDE
N,N-DIMETHYLACETAMIDE
0,S-DIMETHYLACETYLPHOSPHOROAMIDOTHIOATE
DIMETHYLAMINE BORANE
4-DIMETHYLAMINE M-CRESYL METHYL CARBAMATE
DIMETHYLAMINE HYDROCHLORIDE
DIMETHYLAMINOANTIPYRINE
4-DIMETHYLAMINOAZOBENZENE
p-DIMETHYLAMINOBENZENEDIAZOSODIUM SULPHONATE
DIMETHYLAMINO-BIS((2-AZIRIDINYL)PHOSPHINE OXIDE
2-(DIMETHYLAMINO)-5,6-DIMETHYL-4-PYRIDINYLDIMETHYL CARBAMATE
6-(2-DIMETHYLAMINOETHOXY)-2-((5-NITRO-1-METHYL-2-IMIDAZOLYL)-METHYLENE)
N-(2-(DIMETHYLAMINO)ETHYL)-1-ACRIDINECARBOYLAMIDE
2-DIMETHYLAMINOETHYL-2-METHYL-BENZHYDRYL ETHER CITRATE
2-((2-(DIMETHYLAMINO)ETHYL)-3-THENYLAMINO)PYRIDINE
2-((2-(DIMETHYLAMINO)ETHYL)-2-THENYL-AMINO)PYRIDINE HYDROCHLORIDE
trans-2-((DIMETHYLAMINO)METHYLIMINO)-5-(2-(5-NITRO-2-FURYL)VINYL)-1,3,4-OXAD
4-(p-DIMETHYLAMINOPHENYLAMINO)-5,6-DIMETHYLANTHACRIDINE
6-(p-(DIMETHYLAMINO)PHENYL)AZO)BENZOTHIAZOLE
7-(p-(DIMETHYLAMINO)PHENYL)AZO)BENZOTHIAZOLE
4-(p-(DIMETHYLAMINO)PHENYL)AZO)N-METHYLACETANILIDE
6-(p-(DIMETHYLAMINO)PHENYL)AZO)QUINOLINE
10-(2-(DIMETHYLAMINO)PROPYL)PHENOTHIAZINE
DIMETHYLAMINOSUCCINAMIC ACID
N,N-DIMETHYLANILINE
6,12-DIMETHYLANTHACRIDINE
7,9-DIMETHYLANTHACRIDINE
7,11-DIMETHYLANTHACRIDINE
5,7-DIMETHYL-1,2-BENZACRIDINE
6,9-DIMETHYL-1,2-BENZACRIDINE
7,12-DIMETHYLANTHACRIDINE-3,4-DIOL
6,7-DIMETHYL-1,2-BENZANTHACRINE
7,12-DIMETHYLANTHACRINE-5,6-oxide
3,3'-DIMETHYLANTHEZONE DIHYDROCHLORIDE
2,2-DIMETHYL-1,3-BENZODIOX-4-OL METHYLCARBAMATE
1,1-DIMETHYLBIGUANIDE
DIMETHYLCARBAMOYL CHLORIDE
DIMETHYL(2-CHLOROETHYL)AMINE HYDROCHLORIDE
3,6-DIMETHYLCHOLANTHRENE
1,11-DIMETHYLCHRYSENE
11,17-DIMETHYL-15H-CYCLOPENTA(a)PHENANTHRENE
12,17-DIMETHYL-15H-CYCLOPENTA(a)PHENANTHRENE
3,3'-DIMETHYL-N,N'-DIACETYL BENZIDINE
N,N'-DIMETHYL N,N'-DINITROSOXAMIDE
2,5-DIMETHYL DINITROSOPIPERAZINE
2,6-DIMETHYL DINITROSOPIPERAZINE
N,N’-DIMETHYL-N,N’-DINITROTEREPHTHALAMIDE  
2-((2,2-DIMETHYL-1,3-DIOXAN-5-YLIDENE)METHYL)-I-METHYL-5-NITRO-IH-IMIDAZOL  
N,N-DIMETHYL-2,2-DIPHENYLACETAMIDE  
2,2’-DIMETHYLDIPROPYLNITROSOAMINE  
O,O-DIMETHYLDITHIOPHOSPHORYLACETICACID-N-METHYL-N-FORMYLAMIDE  
1,1-DIMETHYL-3-ETHYL-3-NITROSOUREA  
1,9-DIMETHYLFLUORENE  
7,12-DIMETHYL-1 1 -FLUOROBENZ(a)ANTHRACENE  
N,N-DIMETHYL-p-((p-FLUOROPHENYL)AZO)ANILINE  
DIMETHYLFORMAMIDE  
2,5-DIMETHYL FURANE  
1,1-DIMETHYLHYDRAZINE  
1,2-DIMETHYLHYDRAZINE  
1,2-DIMETHYLHYDRAZINE DIHYDROCHLORIDE  
1,1-DIMETHYLHYDRAZINE HYDROCHLORIDE  
1,2-DIMETHYLHYDRAZINE HYDROCHLORIDE  
1,2-DIMETHYLHYDRAZINE OXALATE  
O,O-DIMETHYL-S-ISOPROPYL-2-SULFINYLETHYLPHOSPHOROTHIOATE  
DIMETHYL HYDROGEN PHOSPHITE  
DIMETHYLIMIPRAMINE  
N,N-DIMETHYL-p-(6-INDAZYLAZO)ANILINE  
2,3-DIMETHYLINDOLE  
DIMETHYL-5-((I-ISOPROPYL-3-METHYLPYRAZOLYL)CARBAMATE  
O,O-DIMETHYL-S-ISOPROPYL-2-SULFINYLETHYLPHOSPHOROTHIOATE  
DIMETHYL MERCURY  
O,O-DIMETHYL-3-(METHOXO-1,3,4-THIADIAZOLINYL-3-METHYL) DITHIOPHOSPHAT  
1,3-DIMETHYL-5-(METHYLAMINO)-4-PYRAZOLYL Q-FLUOROPHENYL KETONE  
O,O-DIMETHYL METHYLCARBAMOYL METHYL PHOSPHORODITHIOATE  
DIMETHYL ((I-METHYL-5-NITRO-IH-IMIDAZOL-2-YL)METHYLENE)PROPANEDIOATE  
DIMETHYL-3-METHYL-4-NITROPHENYLPHOSPHOROTHIONATE  
3,3-DIMETHYL-6-((5-METHYL-3-PHENYL-4-ISOXAZOLECARBO)(AMIDE)-7-0XO)-4-THI  
3,3-DIMETHYL-1 -(m-METHYLPYRIDINIUM-4-YL)AMINO-1-(I-METHYL-5-NITRO-IH-IMIDAZOLE  
1,6-DIMETHYL-4-((p-((p-((I-METHYLPYRIDINIUM-4-YL)AMINO)PHENYL)CARBAMOYL)A  
1,8-DIMETHYL-4-((p-((p-((I-METHYLPYRIDINIUM-4-YL)AMINO)PHENYL)CARBAMOYL)A  
2,6-DIMETHYMORPHOLINE  
DIMETHYL(2H-3-METHYL-3-AMINOPHENYL)(2H-2-METHYL-2-AMINOTETRAZOLYL)CARBOXYLATE  
meso-DIMETHYLMYLERAN  
N,N-DIMETHYL-1-NAPHTHYLAMINE  
N,N-DIMETHYL-p-(I-NAPHTHYLazo)ANILINE  
N,N-DIMETHYL-4(2'-NAPHTHYLazo)ANILINE  
DIMETHYLNITRAMINE  
1,1'-DIMETHYL-2’-NITRO-2,4'-BI-IH-IMIDAZOLE  
1,2-DIMETHYL-4-NITRO-IH-IMIDAZOLE  
1,2-DIMETHYL-5-NITROIMIDAZOLE  
3,3-DIMETHYL-1-(p-NITROPHENYL)TRIAZENE  
2,5-DIMETHYL-4-NITROPYRIDINE-1-OXIDE  
3,5-DIMETHYL-4-NITROPYRIDINE 1-OXIDE
N,N-DIMETHYL-p-NITROSOANILINE
3,2'-DIMETHYL-4-NITROSOBIPHENYL
N,O-DIMETHYL-N-NITROSOHYDROXYLAMINE
2,6-DIMETHYLNITROSOMORPHOLINE
3,5-DIMETHYLNITROSOPIPERIDINE
cis-3,5-DIMETHYL-1-NITROSOPIPERIDINE
trans-3,5-DIMETHYL-1-NITROSOPIPERIDINE
1,3-DIMETHYLNITROSOUREA
3 7-DIMETHYL-2,6-OCTADIENAL
trans-3,7-DIMETHYL-2,6-OCTADIEN-1-OL ACETATE
DIMETHYLOL DIHYDROXYETHYLENE UREA
DIMETHYLOXAZOLIDINE
3,3-DIMETHYL-2-OXETANONE
5,5-DIMETHYL-3-(2-(OXIRANYL METHOXY)PROPYL)-I -(OXIRANYLMETHYL)-2,4-IMIDAZ
1,4-DIMETHYLPHENANTHRENE
a,a-DIMETHYLPHENETHYLAMINE
2-DI(N-METHYL-N-PHENYL-tert-BUTYL-CARBAMOYL)ETHYLAMINOETHANOL
N,N-DIMETHYL-p-PHENYLENEDIAMINE
N,N-DIMETHYL-p-PHENYLENEDIAMINE
3,4-DIMETHYLPHENYL-N-METHYL-N-NITROSOCARBAMATE
1,3-DIMETHYL-3-PHENYL-1-NITROSOUREA
3,3-DIMETHYL-1-PHENYLTRIAZENE
1,1-DIMETHYL-3-PHENYLUREA
0,S-DIMETHYL PHOSPHORAMIDOTHIOATE
DIMETHYL PHTHALATE
2,5-DIMETHYLPYRAZINE
216-DIMETHYLpyRAZINE
(3,3-DIMETHYL-I-(m-PYRIDYL-N-OXIDE))TRIAZENE
2,3-DIMETHYLQUINONIALINE DIOXIDE
N,N-DIMETHYL-4-STILBENAMINE
(E)-N,N-DIMETHYL-4-STILBENAMINE
DIMETHYLSTILBESTROL
DIMETHYL SULFATE
DIMETHYL SULFOXIDE
1,1 1-DIMETHYL-1,2,3,4-TETRAHYDROCHRYSENE
3-(4,5-DIMETHYLTHIAZOLYL-2)-2,5-DIPHENYL-TETRAZOLIUM BROMIDE
DIMETHYLTHIONINE
N,N-DIMETHYL-4-((p-TOLYL)AZO)ANILINE
N N-DIMETHYL-p-((m-TOLYL)AZO)ANILINE
N N-DIMETHYL-p-((o-TOLYL)AZO)ANILINE
4-(3,3-DIMETHYL-1-TRIAZENO)ACETANILIDE
4-(3-(3,3-DIMETHYL-1-TRIAZENO)-9-ACRIDINYLAMINO)METHANESULFONANILIDE
1,3-DIMETHYL-1-TRIAZENE
3,3-DIMETHYL-I-(2,4,6-TRIBROMOPHENYL)TRIAZENE
1,1-DIMETHYL-3-(a,a,a-TRIFLUORO-m-TOLYL)UREA
1,3-DIMETHYLUREA
6,8-o-DIMETHYLVERSICOLORINA
N,N-DIMETHYL-p-(2,3,XYLYLAZO)ANILINE
4,6-DINITRO-2-AMINOPHENOL
2,4-DINITROANILINE
2,4-DINITROANISOL
M-DINITROBENZENE
O-DINITROBENZENE
3,4-DINITROBENZOIC ACID
3,5-DINITROBENZOIC ACID
3,5-DINITROBENZOYL CHLORIDE
4,4’-DINITROBIPHENYL
2,4-DINITRO-6-BROMOANILINE
DINITRO-O-CRESOL
2,6-DINITRO-p-CRESOL
4,6-DINITRO-m-CRESOL
4,6-DINITRO-o-CRESOL AMMONIUM SALT
4,6-DINITRO-o-CRESOL SODIUM SALT
2,7-DINITROBENZO-p-DIOXIN
2,8-DINITROBENZO-p-DIOXIN
2,6-DINITRO-N,N-DIPropyl-4-(TRIFLUOROMETHYL)BENZENAMINE
3,7-DINITROFLUORANTHENE
3,9-DINITROFLUORANTHENE
2,7-DINITROFLUORENE
2 7-DINITRO-9-FUORENONE
2,4-DINITRO-1-FLUOROBENZENE
2,4-DINITRO-p-HYDROXYDIPHENYLAMINE
1,3-DINITRONAPHTHALENE
1,5-DINITRONAPHTHALENE
1,8-DINITRONAPHTHALENE
2,4-DINITRO-1-NAPHTHOL
1,6-DINITROPYRENANTHRENE
2,6-DINITROPYRENANTHRENE
3,5-DINITROPYRENANTHRENE
3,6-DINITROPYRENANTHRENE
2,10-DINITROPYRENANTHRENE
3,10-DINITROPYRENANTHRENE
1,7-DINITROPHENAZINE
2,4-DINITROPHENETOLE
213-DINITROPHENOL
2,4-DINITROPHENOL
2,5-DINITROPHENOL
3,4-DINITROPHENOL
1-((2,4-DINITROPHENYL)AZO)-2-NAPHTHOL
2,4-DINITROPHENYL BROMIDE
N,N’-DINITROSO-N,N’-DIMETHYLETHYLENEDIAMINE
DINITROSOHOMOPIPERAZINE

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DINITROSOPIPERAZINE
3,7-DINITROSO-1,3,5,7-TETRAAZABICYCLO[3.3.1]NONANE
2,4-DINITROTHIOPHENE
DINITROTOLUENE
2,3DINITROTOLUENE
2,4-DINITROTOLUENE
2,5-DINITROTOLUENE
2,6-DINITROTOLUENE
3,4DINITROTOLUENE
3,5-DINITROTOLUENE
2,6-DINITRO-p-TOLUIDINE
DINOPROSTONE
Di-sec-OCTYL PHTHALATE
Di-N-OctylTINDICHLORIDE
anti-DIOLEPOXIDE
m-DIOXAN
DIOXANE
1,4-DI-N-OXIDE of DIHYDROXYMETHYLQUINOXALINE
DIOXIME-P-BENZOQUINONE
9,10-DIOXO-9,10-DIHYDRO-1-NITRO-6-ANTHRACENESULFONIC ACID
DIOXOLAN
1,3-DIOXOLANE
o-(1,3-DIOXOLAN-2-YL)PHENYL METHYL CARBAMATE
9,10-DIOXO-1-NITRO-9,10-DIHYDRO-5-ANTHRACENESULFONIC ACID
1,5-DIPHENYL CARBAZIDE
115-DIPHENYLCARBAZONE
DIPHENYLGUANIDINE
1,1-DIPHENYLHYDRAZINE
DIPHENYL NITROSAMINE
1,1-DIPHENYL-2-PROPYNYL-N-CYCLOHEXYLCARBAMATE
DIPHENYL PYRAZONE
DIPHENYLTHIN DICHLORIDE
1,3-DIPHENYLTRIAZENE
DIPROPYLENE GLYCOL DIACRYLATE
1,1-DIPROPYLYHYDRAZINE OXALATE
1,2-DIPROPYLHYDRAZINE OXALATE
p-(DIPROPYLSULFAMOYL)BENZOIC ACID
DIPYRIDO(1,2-a@3',2'-d)IMIDAZOL-2-AMINE
DIPYRIDO(1,2-A:2',l'-C)PYRAZINEDIUM, 6,7-DIHYDRO
DIQUAT
3,3'-DISELENODIALANINE
DISODIUM CHROMATE
DISODIUM ETHYLENE-1,2-BISDITHIOCARBAMATE
DISODIUM FLUOROPHOSPHATE
DISODIUM INOSINATE
DISODIUM MOlybDATE
DISODIUM PHOSPHONOMYCIN
DISODIUM SELENATE
DISTAMYCIN
DISTAMYCINA/5
DISTAMYCIN A HYDROCHLORIDE
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE
DISULFIRAM
3,5-DISULFOCATECHOL DISODIUM SALT
DISULFOTON
DITHANE M-45
2,2'-DITHIOBIS(5-NITROPYRIDINE)
1,4-DITHIOERYTHRITOL
DiHIOETHREITOL
DITOLYLBIS(AZONAPHTHIONIC ACID)
N,N-DI(p-TOLYL)HYDRAZINE
DIURON
DODECYLEDIMETHYL(2-PHENOXYETHYL)AMMONIUM BROMIDE
N-DODECYLGUANIDINE ACETATE
a-DODECYL-w-HYDROXY-POLYOXYETHYLENE
I-DOPA METHYL ESTER
DOPAMINE
DOPAMINE HYDROCHLORIDE
DOPAN
DOSULEPIN
DOXIFLURIDINE
DOXYCYCLINE
DRAMAMINE
I-DROMORAN TARTRATE
A-ECDYSONE
ECHINOMYCIN
EDEINE
EDROFURADENE
5,8,11,14-EICOSATETRAENOIC ACID
ELAVIL HYDROCHLORIDE
ELLIPITISINE
EMBITOL
EMBUTOX
EMETINE
EMORFAZONE
ENAVID
ENDOSULFAN
ENDOTOXIN, kip
ENDRIN
ENFLURANE
EPE
EPICHLOROHYDRIN
EPIDERMAL GROWTH FACTOR
4'-EPIDOXORUBICIN
EPIPODOPHYLLOTOXIN
EPON 820
(2R,3R)-(+-)2,3-EPOXY-3-(4-BROMOPHENYL)-I-PROPANOL 2R3R
(2S,3S)-(--)2,3-EPOXY-3-(4-BROMOPHENYL)-I-PROPANOL 2S 3S
2,3-EPOXYBUTANE
cis-2,3-EPOXYBUTANE
3,4-EPOXY-1-BUTENE
(2R 3R)-(+)-(2,3-EPOXYBUTYLESTER)-4-NITROBENZOATE 2R 3R
(2S,3S)-(--)-(2,3-EPOXYBUTYLESTER)-4-NITROBENZOATE
EPOXYCHEOLESTEROL
1,2-EPOXYCYCLOPENTANE
9,10-EPOXY-9,10 DIHYDROBENZO)ACEANTHRYLENE
5,6-EPOXY-5,6-DIHYDROBENZ(a)ANTHRACENE
5,6-EPOXY-5,6-DIHYDRODIBENZ(a,h)ANTHRACENE
1,2-EPOXY-3-ETHOXYPROPANE
1,2-EPOXYETHYL BENZENE
4-(EPOXYETHYL)-1,2-XYLENE
1,2-EPOXY-3-FLUOROPROPANE
EPOXYHEPTACHLOR
1,2-EPOXYHEXADECANE
2,3-EPOXY-4-HYDROXYNONANAL
11,12-EPOXY-3-METHYLCHOLANTHRENE
(2R)-(--)-(2,3-EPOXY-2-METHYLPROPYLESTER)-4-NITROBENZOATE
(2S)-(++)-(2,3-EPOXY-2-METHYLPROPYLESTER)-4-NITROBENZOATE
2,3-EPOXY-4-OXO-7,10-DODECADIENAMIDE
1,2-EPOXPENTANE
(2S,3S)-(--)-(2,3-EPOXY-3-PHENYL-1-PROPA NOL
S-EPOXYPROPANE
3-(2,3-EPOXYPROPOXY)PROPYLTRIMETHOXY SILANE
2,3-EPOXYPROPYL ACRYLATE
(1,2-EPOXYPROPYL)BENZENE (1R,2R)-
2,3-EPOXYPROPYL METHACRYLATE
2,3-EPOXYPROPYL NITRATE
2,3-EPOXYPROPYL OLEATE
N-(2,3-EPOXYPROPYL)-PHTHALIMIDE
1,2-EPOXY-1,2,3,4-TETRAHYDROBENZ(a)ANTHRACENE
7,8-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE
9,10-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE
9,10-EPOXY-9,10,11,12-TETRAHYDROBENZO(e)PYRENE
3,4-EPOXY-1,2,3,4-TETRAHYDROCHRYSENE
1,2-EPOXY-1,2,3,4-TETRAHYDROPHENANTHRENE
3,4-EPOXY-1,2,3,4-TETRAHYDROPHENANTHRENE
1,2-EPOXY-1,2,3,4-TETRAHYDROTRIPHENYLENE
1,2-EPOXY-4,4,4-TRICHLOROBUTANE
EPOXY-1,1,2-TRICHLOROETHANE
ERGOCHROME AA (2,2')-5-b,6-a,10-b-5',6'-a,10'-b
ERGOT
ERGOTAMINE
ERGOTAMINE TARTRATE
ERIONITE
ESCHERICHIA COLI ENDONUCLEASE I
ESCHERICHIA COLI EN DOTOXIN
ESTRADIOL
17-a-ESTRADIOL
ESTRADIOL-3-BENZOATE
ESTRIOL
ESTRONE
ETHACRIDINE LACTATE
ETHAMBUTOL DIHYDROCHLORIDE
ETHANEDIAL DIOXIME
1,2-ETHANEDIAMINE
1,2-ETHANEDIOL DIGLYCIDYL ETHER
ETHANESULFONIC ACID, 2-HYDROXY-, compounded eith 9-((2-METHOXY-4-((METHYL
ETHANOLAMINE
1-ETHENYL PYRENE
EHINYL ESTRADIOL
17-a-ETHINYL-5,10-ESTRENOLONE
ETHION
dl-ETHIONINE
ETHOXYANILINE
2-ETHOXYBENZAMIDE
8-ETHOXYCAFFEINE
11-ETHOXY-15,16-DIHYDRO-17-CYCLOPENTA(a)PHENANTHREN-17-ONE
2-ETHOXYETHANOL
3-((I-(2-ETHOXYETHYL)-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)-I-METHYL-2-PYRR
ETHYL ACRYLATE
ETHYL ALCOHOL
3-ETHYLAMINO-4-METHYLPHENOL
3-ETHYLAMINO-5H-PYRIDO(4,3-b)INDOLE
4-ETHYLANILINE
ETHYL AURAMINE NITRATE
10-ETHYL-1,2-BENZANTHRACENE
ETHYL BENZENE
ETHYL BROMIDE
ETHYL BUTYLCARBAMATE
ETHYL-N-BUTYLNITROSAMINE
9-ETHYLCARBAZOLE
ETHYL CHLORIDE
9-(5-(4-(N-ETHYL-N-(2-CHLOROETHYL)AMINO)PHENOXY)PENTYLAMINO)ACRIDINE
7-(3-(ETHYL-2-(CHLOROETHYLAMINO)PROPYLAMINO))BENZ(c)ACRIDINE DIHYDROC
9-((3-ETHYL-2-CHLOROETHYL)AMINOPROPYLAMINO)-4-METHOXYACRIDINE DIHYDR
ETHYL CHRYSANTHEMUMATE
S-ETHYLCYCLOHEXYLETHYLTHIOCARBAMATE
4’-ETHYL-N,N-DIETHYL-p-(PHENYLazo)ANILINE
5-ETHYL-1,3-DIGLYCIDYL-5-METHYLHYDANTOIN
1-ETHYL-1,4-DIHYDRO-7-METHYL-4-OXO-1,8-NAPHTHYRIDINE-3-CARBOXYLIC ACID
S-ETHYL N,N-DIISOBUTYLTHIOCARBAMATE
O-ETHYL-S,S-DIPHENYL DITHIOPHOSPHATE
S-ETHYL-N,N-DI-N-PROPYLTHIOCARBAMATE
ETHYLENE ACRYLATE
ETHYLENE BIS(DITHIOCARBAMATO)ZINC
ETHYLENE CHLOROHYDRIN
ETHYLENEDIAMINETETRAACETIC ACID
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT
1,2-ETHYLENE DIBROMIDE
ETHYLENE DICHLORIDE
N,N-ETHYLENE-N',N'-DIMETHYLUREA
ETHYLENE DIPYRIDIUM DIBROMIDE
2,2'-(ETHYLENEDIETHIO)DIANILINE
ETHYLENE GLYCOL
ETHYLENE GLYCOL METHYL ETHER
ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE
ETHYLENEIMINE
ETHYLENE OXIDE
ETHYLENE SULFATE
ETHYLENE THIURAM MONOSULFIDE
11-b-ETHYLESTRADIOL
ETHYL ETHER
1-ETHYL-4-(p-((I-ETHYLQUINOLINIUM-4-YL)AMINO)-2-AMINOPHENYL)CARBAMO
1-ETHYL-4-(p-((I-ETHYLQUINOLINIUM-4-YL)AMINO)BENZAMIDO)ANILINOQUINOLI
1-ETHYL-4-(p-((I-ETHYLQUINOLINIUM-4-YL)AMINO)PHENYL)CARBAMOYL)CINNA
1-ETHYL-4-(p-((I-ETHYLQUINOLINIUM-4-YL)PHENYL)CARBAMOYL)ANILINOQUINOLI
1-ETHYL-6-(p-( (I-ETHYLQUINOLINIUM-6-YL) CARBAMOYL)BEZAMID0)BENZAMID
ETHYL-7- ((p- (I-ETHYLQUINOLINIUM-7-YL)CARBAMOYL)BENZAMIDO)BENZAMID
ETHYL GLYCIDYL ETHER
sec-ETHYL HEXAHYDRO-1 H-AZEPINE-1 -CARBOTHIOATE
2-ETHYLPYRIDINOL
N-ETHYL-N-(4-HYDROXYBUTYL)NITROSOAMINE
ETHYL-2-HYDROXYETHYNITROSAMINE
ETHYL-N-(2-HYDROXYETHYL)-N-NITROSOCARBAMATE
N-ETHYL-N-(3-HYDROXYPROPYL)NITROSAMINE
7-ETHYLIDENECYCLOPENT(b)OXIRENO(c)PYRIDINE HEXAHYDRO DERIV.
ETHYLIDENE DIFLUORIDE
ETHYL IODIDE
ETHYL ISOCYANATE
ETHYL ISOThIOCYANATE
ETHYL MALtol
ETHYLMERCURIC CYSTEINE
ETHYLMERCURY-P-TOLUENE SULFONAMIDE
ETHYL METHACRYLATE
ETHYL METHANESULFONATE
4-(I-ETHYL-2-(4-METHOXYPHENYL)-l-BUTENYL)PHENOL (E-
ETHYL all-trans-9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-3,7-DIMETHYL-2,4,6,8-NON
ETHYL METHYL AZIDOMETHYL PHOSPHONATE
7-ETHYL-12-METHYLBENZ(a)ANTHRACENE
12-ETHYL-7-METHYLBENZ(a)ANTHRACENE
ETHYL-N-METHYLCARBAMATE
ETHYL METHYL KETOXIME
2-(ETHYL(3-METHYL-4-(PHENYLazo)PHENYL)AMINO)ETHANOL
ETHYL METHYLPHENYLGLYCIDATE
2-ETHYL-2-METHYL succinimide
N-ETHYL Morpholine
ETHYL NITRATE
(ETHYLNITROSAMINO) METHYL ACETATE
ETHYLNITROSOCYANAMIDE
N-ETHYL-N-NITROSO-N'-NITROGUANIDINE  
2-ETHYL-3-NITROSOThIAZOLIDINE  
1-ETHYL-1-NITROSOUREA  
1-ETHYL-3-(5-NITRO-2-THIAZOLYL) UREA  
5-ETHYLPHENAZINIUM ETHYLSULFATE  
ETHYL PHENYLACETATE  
N-ETHYL-l-(p-(PHENYLAZO)PHENYL)AZO)-2-NAPHTHYLAMINE  
5-ETHYL-5-PHENYLBARBITURIC ACID  
ETHYL PHENYLGlyCIDATE  
ETHYL N-(5R,8S,10R)-6-PROPYL-S-ERGOLINYL)CARBAMATE  
4'-ETHYL-4-N-PYRROLIDINYLAZOBENZENE  
ETHYL TELLURAC  
2-ETHYLTHIOISONICOTINAMIDE  
ETHYL THIOUREA  
ETHYL TOSYLATE  
1-ETHYLUREA  
ETHYLUREA and SODIUM NITRITE (1: 1)  
ETHYL VANILLIN  
4-ETHYLVERATROLE  
ETHYL VINYL ETHER  
ETHYL XANTHATE  
ETHYMIDINE  
ETHYNODIOL ACETATE  
ETHYNYLESTRADIOL mixed with NORETHINDRONE  
ETP  
EUGENOL  
EUPATORIOPICRIN  
EVIPAL  
EXIMINE  
EXT D and C BLUE No. 3  
FAMFOS  
FARNESOL  
FAST SULON BLACK BN  
FD&C BLUE No. 1  
FD&C BLUE No. 2  
FD&C GREEN No. 1  
FD&C GREEN No. 2  
FD&C GREEN No. 3  
FD&C ORANGE No. 1  
FD&C RED No. 1  
FD&C RED No. 2  
FD&C RED No. 3  
FD&C RED No. 4  
FD&C RED No. 19  
FD&C RED No. 40  
FD&C YELLOW No. 3  
FD&C YELLOW No. 4  
FD&C YELLOW No. 5  
FD&C YELLOW No. 6  
FENARIMOL
FENBENDAZOLE
FENNEL OIL
FENSULFOTHION
FENTHION
FENTHIURAM
FENVALERATE
FERBAM
FERRIC CHLORIDE
FERRIC CHLORIDE HEXAHYDRATE
FERRIC FLUORIDE
FERRIC NITRATE
FERRIC SULFATE
FERRITIN
FERROCENE
FERROUS CHLORIDE
FERROUS ION
FERROUS SULFATE
FERROUS SULFATE HEPTAHYDRATE
trans-FERULIC ACID
FIBROUS GLASS
FIREFIGHTER BP-6
FISETIN
FLAVIANIC ACID
FLAVOXATE HYDROCHLORIDE
FLUNITRAZEPAM
FLUOCINOLIDE
1-FLUORANTHENAMINE
FLUORANTHENE
FLUOREN-2-AMINE
9H-FLUORENE
FLUORENE-2,7-DIAMINE
9H-FLUORENE, NITRO-(9CI)
9H-FLUOREN-9-ONE
N-FLUOREN-2-YL ACETAMIDE
N-FLUOREN-2-YL ACETOHYDROXAMIC ACID SULFATE
N-(2-FLUORENYL)BENZAMIDE
N-FLUOREN-2-YL BENZOHYDROXAMIC ACID
N-FLUOREN-2-YL FORMAMIDE
N-(2-FLUORENYL)FORMOHYDROXAMIC ACID
N-FLUOREN-2-YL-HYDROXILAMINE-o-GLUCURONIDE
9-FLUORENYLMETHYL CHLOROFORMATE
2-FLUORENYL METHYL KETONE
N-(2-FLUORENYL)MYRISTOHYDROXAMIC ACID ACETATE
N-9H-FLUOREN-2-YL-N-NITROSOACETAMIDE
N-(2-FLUORENYL)PROPIONOHYDRO)(AMIC ACID
FLUORESCIN
FLUORESCIN MERCURIC ACETATE
FLUORESCIN SODIUM
FLUIRIDE
FLUOROACETAMIDE
4-FLUOROANILINE
2-FLUORO-BENZO(e)(l)BENZOTHIOPYRANO(4,3-b)INDOLE
3-FLUORO-BENZO(e)(l)BENZOTHIOPYRANO(4,3-b)INDOLE
3-FLUORO-BENZO(g)(l)BENZOTHIOPYRANO(4,3-b)INDOLE
4-FLUORO-BENZO(e)(l)BENZOTHIOPYRANO(4,3-b)INDOLE
4-FLUORO-BENZO(g)(l)BENZOTHIOPYRANO(4,3-b)INDOLE
2-FLUORO-(l)BENZOTHIOPYRANO(4,3-b)INDOLE
4-FLUORO-(l)BENZOTHIOPYRANO(4,3-b)INDOLE
4-FLUORO-6H-(l)BENZOTHIOPYRANO(4,3-b)QUINOLINE
O-FLUOROBENZOYL CHLORIDE
2-FLUOROBIPHENYL
5-FLUOROCYTOSINE
5-FLUORO-2'-DEOXYCYTIDINE
p-FLUORO-D-[2-(2-CHLOROETHYL)-BENZYLAMINE HYDROCHLORIDE
1-FLUORO-7,12-DIMETHYLBENZ(a)ANTHRACENE
7-FLUORO-2-N-(FLUORENYL)ACETHYDROYAMIC ACID
4-FLUORO-2-METHYLBENZENAMINE
4-FLUORO-7-METHYL-6H-(l)BENZOTHIOPYRANO(4,3-b)QUINOLINE
1-FLUORO-5-METHYLCHRYSENE
6-FLUORO-5-METHYLCHRYSENE
7-FLUORO-5-METHYLCHRYSENE
9-FLUORO-5-METHYLCHRYSENE
11-FLUORO-5-METHYLCHRYSENE
12-FLUORO-5-METHYLCHRYSENE
p-FLUORO-N-METHYL-N-NITROSOANILINE
1-FLUORO-4-NITROBENZENE
2-FLUORO-5-NITRO-1,4-BENZENEDIAMINE
3-FLUOROPHENYLALANINE
4-FLUORO-dl-PHENYLALANINE
3-(o-FLUOROPHENYL)ALANINE
4-FLUOROPHENYLALANINE
2-FLUOROPYRIDINE
5-FLUORO-I-(TETRAHYDROFURAN-2-YL)URACIL
FLUOROTRIBUTYLSTANNANE
FLUOROURACIL
5-FLUOROURIDINE
FLUPHENAZINE DIHYDROCHLORIDE
FOLIC ACID
FONOFOS
FOOD BLUE 1
FOOD RED No. 101
FOOD RED No. 102
FORMALDEHYDE
FORMALDOXIME
FORMAMIDE
FORMIC ACID
2-FORMYLAMINO-4-((2-5-NITRO-2-FURYL)VINYL)-1,3-THIAZOLE
3'-FORMYL-N,N-DIMETHYL-4-AMINOAZOBENZENE
5-FORMYLGUAIACOL
N-FORMYL-N-METHYLHYDRAZINE
M-FORMYLPHENOL
P-FORMYLPHENOL
2-FORMYLQUINOY,ALINE-1,4-DIOXIDE CARBOMETHOXYHYDRAZONE
FOTRIN
FULVINE
FUMARIC ACID
FUMARONITRILE
FUNICULOSIN (PIGMENT)
FURALAZIN
FURALTAGDONE
FURALTAGDONE HYDROCHLORIDE
I-FURALTAGDONE HYDROCHLORIDE
FURAN
2-FURANACRYLIC ACID
2-FURANMETHYL ACETATE
2(5H)-FURANONE, 5-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)
FURAPROMIDIUM
FURAPYRIMIDONE
FURFURAL
N-FURFURYLADENINE
FURFURYL ALCOHOL
2H-FURO(2,3-h)(1)BENZOPYRAN-2-ONE
7H-FURO(3,2-g)(1)BENZOPYRAN-7-ONE
2-FUROIC ACID
FUROTHIAZOLE
2-(2-FURYL)BENZIMIDAZOLE
2-(2-FURYL)-3-(5-NITRO-2-FURYL)ACRYLAMIDE
trans-2-(2-FURYL)-3-(5-NITRO-2-FURYL)ACRYLAMIDE
FUSARENONE X
FUSARIOTOXIN T 2
FUSIDINE
FYROL ER 2
D-GALACTOSAMINE HYDROCHLORIDE
GALANGIN
GALLIC ACID
GALLIUM
GALLIUM(3+) CHLORIDE
GALLIUM(III) NITRATE (1:3)
GENISTEIN
GENTAMYCIN
GENTAMYCIN SULFATE
GENTISIC ACID
GERMANIUM CHLORIDE
GERONTINETETRAHYDROCHLORIDE
GIBBERELLICACID
GILVOCARCIN V
GINGER OIL
GLUCAGON
GLUCONO-D-LACTONE
D-GLUCOSE
a-d-GLUCOTHIOPYRANOSE
b-N-(g-L(+))GLUTAMYL)4-HYDROXYMETHYLPHENYLHYDRAZINE
GLUTARALDEHYDE
GLUTATHIONE
1-(GLUTATHION-S-YL)-1,2,3,4,4-PENTACHLORO-1,3-BUTADIENE
dl-GLYCERALDEHYDE
GLYCERIN
GLYCEROL TRIBROMOHYDRIN
GLYCERYL ACETATE
GLYCIDALDEHYDE
GLYCIDOL
GLYCIDOL METHYL ETHER
GLYCIDYL 2-ETHYLHEXYL ETHER
GLYCIDYL HEXYL ETHER
GLYCIDYL ISOXYLANURATE
GLYCIDYL NEODECANOATE
GLYCIDYL-P-TOLYL ETHER
GLYCIDYL-TRIMETHYL-AMMONIUM CHLORIDE
GLYCINE
GLYCOLS, POLYETHYLENE, MONO(1,1,3,3-TETRAMETHYLButYL)PHENYL) ETHER
GLYCYRRHIZICACID,AMMONIUMSALT
GLYXANILIDE OXIME
GLYXYLIC ACID
GLYPHOSATE ISOPropYLAMINE SALT
GOLD CHLORIDE
GOSSYPIMINE
GOSSYPOL
GOSSYPOL ACETIC ACID
GRAMICIDIN
GRAPEFRUIT OIL
GRISOFULVIN
GUAIACOL
GUANIDINE, MONOHYDROCHLORIDE
2-GUANIDINOETHYL DISULFIDE
GUANINE
GUANOSINE
GUANOSINE2'-DEOXY-,5'-TRIPHOSPHATE
5'-GUANYLICACID
GUANYLIC ACID SODIUM SALT
GUAR GUM
GUNACIN
H ACID DISODIUM SALT
HAEMOPHILIS INFLUENZAE, ENDOTOXIN, phenol water extract
HALAZONE
HALCIDERM
HALOTHANE
HELIOTRINE
HEMATEIN
HEMATOIDIN
HEPARIN
HEPTACHLOR
HEPTYL ALCOHOL
g-HEPTYLBUTYROLACTONE
HEPTYLMETHYLNITROSAMINE
HEROIN
HEXACARBONYLCHROMIUM
HEXACHLOROBENZENE
2,2',4,4',5,5'-HEXACHLORO-1,1'-BIPHENYL
2,2',3,3',6,6'-HEXACHLORO-1,1'-BIPHENYL
HEXACHLOROBUTADIENE
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN
1,2,3,7,8,9-HEXACHLORODIBENZO-p-DIOXIN
HEXACHLOROETHANE
HEXACHLORO-2-PROPANONE
HEXACHLOROPROPENE
HEXACETYLPYRIDINE BROMIDE
2,4-HEXADIYN-1,6-BIS-p-TOLUENESULFONATE
1,2,3,7,8,9-HEXAHYDROANTHANTHRENE
1,2,3,4,12,13-HEXAHYDRODIBENZ(a,h)ANTHRACENE
HEXAHYDRO-1,3-DICYCLOHEXYL-5-((l-METHYL-5-NITRO-lH-IMIDAZOL-2-YL)METHYL
6,7,8,9,10,12b-HEXAHYDRO-3-METHYL CHOLANTHRENE
HEXAHYDROPICOLIC ACID
3,3',4',5,5',7-HEXAHYDROXYFLAVONE
3,3',4',5,5',7-HEXAHYDROXYFLAVYLUM
N,N'-HEXAMETHYLENEBIS(2,2-DICHLORO-N-ETHYLACETAMIDE)
HEXAMETHYLENE DIODIDE
1,1-HEXAMETHYLENEHYDRAZINE
HEXAMETHYLENETETRAMINE
HEXAMETHYLMELEMINE
HEXAMETHYLPHOSPHORAMIDE
HEXAMETHYLPHOSPHORUSTRIAMIDE
N-HEXANE
1,2,3,4,5,6-HEXANEHEXOL
2,4,6,2',4',6'-HEXANITRODIPHENYLAMINE
HEXANOIC ACID
2-HEXENAL
1,2-HEXENE OXIDE
9-((3-(HEXYLAMINO)PROPYL)AMINO) 1-NITROACRIDINE DIHYDROCHLORIDE
N-HEXYLMERCURIC BROMIDE
1-HEXYL-1-NITROSOUREA
HEXYLRESORCINOL
HISPACID FAST ORANGE 2G HISPACID
HISTAMINE
HISTIDINE
dl-HOMOCYSTEINE
HOMOFOLATE
HOMOVERATRIC ACID
Hycanthone METHANESULFONATE
HYDRAZINE
HYDRAZINE HYDROCHLORIDE
HYDRAZINE
HYDRAZINE CARBOXAMIDE
HYDRAZINE HYDRATE
HYDRAZINE, HYDROCHLORIDE
HYDRAZINE SULFATE (1:1)
4-HYDRAZINOBENZOIC ACID
2-HYDRAZINOETHANOL
2-HYDRAZINO-4-(5-NITRO-2-FURYL)THIAZOLE
1-HYDRAZINOPHTHALAZINE ACETONE HYDRAZONE
HYDRAZOBENZENE
HYDROCHLORIC ACID
HYDROCORTISONE-21-ACETATE
HYDROFLUORIC ACID
(HYDROGEN(ETHYLENEDINITRILO)TETRAACETATO)IRON
HYDROGEN HEXACHLOROIRIDATE (4+)
HYDROGEN PEROXIDE, 90%
HYDROGEN SULFITE
HYDROQUINONE
4'-HYDROXYACETANILIDE
N-HYDROXY-N-ACETYL-2-AMINOFLUORENE
N-HYDROXYADENINE
6-N-HYDROXYADENOSINE
N-HYDROXY-2-AMINOFLUORENE
2-HYDROXYAMINO-3-METHYLIMIDAZOLO(4,5-F)QUINOLONE
N-HYDROXY-1-AMINONAPHTHALENE
4-(HYDROXYAMINO)QUINOLINE-1-OXIDE
4-(HYDROXYAMINO)QUINOLINE-1-OXIDE, HYDROCHLORIDE
4-(HYDROXYAMINO)TOLUENE
17-b-HYDROXY-5-b-ANDROSTAN-3-ONE
3-(3-HYDROXYANTHRANILOYL)ALANINE
1-HYDROXYANTHRACINONE
4-HYDROXYAZOBENZENE
4-HYDROXY-3,4'-AZODI-1-NAPHTHALENESULFONIC ACID, DISODIUM SALT
P-HYDROXYBENZOIC ACID ETHYL ESTER
P-HYDROXYBENZOIC ACID METHYL ESTER
4-HYDROXYBENZO(a)PYRENE
5-(a-HYDROXYBENZYL)-2-BENZIMIDAZOLECARBAMIC ACID METHYL ESTER
4-HYDROXYBUTYL BUTYLNITROSAMINE
3-HYDROXYBUTYL-(2-HYDROXYPROPYL)-N-NITROSAMINE
4-HYDROXYBUTYL-(2-HYDROXYPROPYL)-N-NITROSAMINE
4-HYDROXYBUTYL-(3-HYDROXYPROPYL)-N-NITROSAMINE
3-HYDROXY-p-BUTYROPHENETIDIDE
7-HYDROXYCOUMARIN
N-HYDROXYCYCLOHEXYLAMINE
4-HYDROXYCYCLOPHOSPHAMIDE
HYDROXYDAUNORUBICIN HYDROCHLORIDE
1'-HYDROXY-2',3'-DEHYDROESTRAGOLE
N-HYDROXY-N,N'-DIACETYL BENZIDINE
N-HYDROXY-3,2'-DIMETHYL-4-AMINOBIPHENYL
HYDROXYDIMETHYLARSINE OXIDE
4-HYDROXY-2,5-DIMETHYL-3(2H)FURANONE
P-HYDROXYDIPHENYLAMINE ISOPROPYL ETHER
6-HYDROXYDOPAMINE
20-HYDROXYECODYNE
9-HYDROXYELLipticine
1'-HYDROXYESTRAGOLE
1'-HYDROXY-ESTRAGOLE-2',3'-OXIDE
2-((2-(2-HYDROXYETHOXY)-4-NITROPHENYL)AMINO)ETHANOL
2,2'-((4-((2-HYDROXYETHYL)AMINO)-3-NITROPHENYL)IMINO)DIETHANOL
4-((2-HYDROXYETHYLAMINO)-2-(5-NITRO-2-THIENYL)QUINAZOLINE
B-HYDROXYETHYLCARBAMATE
N-HYDROXY ETHYL CARBAMATE
2-(HYDROXYETHYL) 2,3-DIBROMOPROPA.NOATE
(2-HYDROXYETHYL)DIISOPROPYLAMMINIUMBROMIDE XANTHENE-9-CARB
N-(2-HYDROXYETHYL)-N-(4-HYDROXYBUTYL)NITROSAMINE
N-(2-HYDROXYETHYL)-3-METHYL-2-QUINOLINECARBOXAMIDE 1,4-DIOXIDE
N-(2-HYDROXYETHYL)-a-(5-NITRO-2-FURYL)NITRONE
N-(2-HYDROXYETHYL)-2-NITRO-1H-IMIDAZOLE-1-ACETAMIDE
3-((2-HYDROXYETHYL)-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)-1-METHYL-2-PY
1-(2-HYDROXYETHYL)-1-NITROSOUrea
1-((1-HYDROXYETHYL)PYRENE
(2-HYDROXYETHYL)TRIMETHYLLAMMONIUM CHLORIDE SUCcINATE
(2-HYDROXYETHYL)TRIMETHYLARSONIUM
5-HYDROXY-N-2-FLUORENYLACETAMINE
N-HYDROXY-4-FORMYLAMINOBIPHENYL
6-HYDROXY-trans,trans-2,4-HEXADIENAL
5-HYDROXY-2-(HYDROXYMETHYL)-4-PYRONE
4-HYDROXY-3-((2-HYDROXY-1-NAPHTHALENYL)AZO)BENZENESULFONIC ACID, MON
(HYDROXYIMINO)CYCLOHEXANE
HYDROXYLAMINE
HYDROXYLAMINE HYDROCHLORIDE
HYDROXYLAMINE-0-SULFONIC ACID
4'-HYDROXY-3'-METHOXYACETOPHENONE
N-HYDROXY-3-METHOXY-4-AMINOAZOBENZENE
2-HYDROXY-4-METHOXYBENZALDEHYDE
1-HYDROXY-6-METHOXYPHENAZINE 5,1 O-DIOXIDE
N-HYDROXY-N-METHYL-4-AMINOAZOBENZENE
4-(N-HYDROXY-N-METHYLAMINO)QUINOLINE 1-OXIDE
6-HYDROXYMETHYLANTHRACENE
4-(HYDROXYMETHYL)BENZENEDIAZONIUM TETRAFLUOROBORATE
4-HYDROXY-6-METHYL-5-BENZOFURANACRYLIC ACID G-LACTONE
4-HYDROXYMETHYL-4',5'-BENZOPSORALEN
6-HYDROXYMETHYLGENZO(a)PYRENESULFATE ESTER (SODIUM SALT)
1-HYDROXY-3-METHYLCHOLANTHRENE
2-HYDROXY-3-METHYLCHOLANTHRENE
2-HYDROXY-3-METHYL-2-CYCLOPENTEN-1-ONE
5-HYDROXYMETHYLDIOXYURIDINE
2'-HYDROXYMETHYL-N,N-DIMETHYL-4-AMINOAZOBENZENE
3'-HYDROXYMETHYL-N,N-DIMETHYL-4-AMINOAZOBENZENE
1'-HYDROXYMETHYLEUGENOL
<table>
<thead>
<tr>
<th>Compound Name</th>
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<tbody>
<tr>
<td>7-HYDROXYMETHYL-12-METHYLBENZ(a)ANTHRACENE</td>
</tr>
<tr>
<td>12-HYDROXYMETHYL-7-METHYLBENZ(a)ANTHRACENE</td>
</tr>
<tr>
<td>1-HYDROXYMETHYL-2-METHYLDITMIDE-2-OXIDE</td>
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<tr>
<td>2-HYDROXY-3-METHYL-1,4-NAPHTHOQUINONE</td>
</tr>
<tr>
<td>2-HYDROXYMETHYL-5-NITROIMIDAZOLE-1 ETHANOL</td>
</tr>
<tr>
<td>1-HYDROXY-3-(METHYLNITROSAMINO)-2-PROPANE ACETATE (ESTER)</td>
</tr>
<tr>
<td>2-HYDROXYMETHYL PYRENE</td>
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<tr>
<td>8-HYDROXY-2-METHYLQUINOLINE</td>
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<tr>
<td>N-HYDROXY-N-MYRISTOYL-2-AMINOFLUORENE</td>
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<tr>
<td>2-HYDROXYNAPHTHOQUINONE</td>
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<tr>
<td>4-HYDROXY-3-NITROBENZENEARSONIC ACID</td>
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<tr>
<td>9-HYDROXY-2-NITROFLUORENE</td>
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<tr>
<td>3-HYDROXYNITROSCARBOFURAN</td>
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<tr>
<td>2-HYDROXY-6-(NITROSOCYANAMIDO)HEXANAMIDE</td>
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<tr>
<td>trans-4-HYDROXY-2-NONENAL</td>
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<tr>
<td>N-((3-a-5-b)-3-HYDROXY-24-OXOCHOLAN-24-YL)GLYCINE</td>
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<tr>
<td>N-HYDROXY-p-PHENETIDINE</td>
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<tr>
<td>P-HYDROXYPHENYL BUTAZONE</td>
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<tr>
<td>(3-HYDROXYPHENYL)DIMETHYLAMINE</td>
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<tr>
<td>P-HYDROXYPROPYL BENZOATE</td>
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<tr>
<td>1-(((2-HYDROXYPROPYL)NITROSO)AMINO)ACETONE</td>
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<tr>
<td>b-((N-(3-HYDROXY-4-PYRIDONE))-a-AMINOPROPIONIC ACID</td>
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<tr>
<td>8-HYDROXYQUINOLINE BENZOATE</td>
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<tr>
<td>I'-HYDROXYSAFROLE-2',3'-OXIDE</td>
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<tr>
<td>12-HYDROXYSTEARIC ACID</td>
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<tr>
<td>1-HYDROXY-2-(3-SULFOPROPOXY)ANTHRAQUINONE SODIUM SALT</td>
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<tr>
<td>4-HYDROXYTAMOXIFEN</td>
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<tr>
<td>5-HYDROXYTETRACYCLINE</td>
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<tr>
<td>5-HYDROXYTETRACYCLINE HYDROCHLORIDE</td>
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<tr>
<td>4-HYDROXY-2,6,6-TETRAMETHYL-1-PIPERIDINYLOXY</td>
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<tr>
<td>1-HYDROXY-4-(p-TOLUIDINO)ANTHRAQUINONE</td>
</tr>
<tr>
<td>8-HYDROXY-6,10,1 1-TRIMETHOXY-3A,12C-DIHYDRO-7H-FURO(3',2':4,5)FURO(2,3-C)X</td>
</tr>
<tr>
<td>6-HYDROXY-b,2,7-TRIMETHYL-5-BENZOFURANACRYLIC ACID G-LACTONE</td>
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<tr>
<td>HYDROXYTRIPHENYLSTANNANE</td>
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<tr>
<td>HYDROXYUREA</td>
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<td>3-HYDROXYXANTHINE</td>
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<td>HYMEXON</td>
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<tr>
<td>HYOSCINEHYDROBROMIDE</td>
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<tr>
<td>HYPOCHLOROUS ACID, CALCIUM SALT</td>
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<tr>
<td>ICR 340</td>
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<tr>
<td>IMIDAZOLE</td>
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<tr>
<td>1H-IMIDAZOLE-4-CARBOXAMIDE,5-AMINO-,MONOHYDROCHLORIDE</td>
</tr>
<tr>
<td>1H-IMIDAZOLE, 2-((2,3-DIHYDRO-IH-INDEN-1-YLIDENE)METHYL)-I-METHYL-5-NITRO</td>
</tr>
<tr>
<td>IH-IMIDAZOLE, 2,2'-((DITHIOBIS(METHYLENE))BIS(I-METHYL-5-NITRO)-</td>
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<tr>
<td>IMIDAZOLEPYRAZOLE</td>
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<tr>
<td>2,4'-IMIDAZOLIDINEDIONE, 3,3'-((2-(OXIRANYLMETHOXY)-I,3-(PROPANEDIYL)BIS(5,5-</td>
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<tr>
<td>2'-IMIDAZOLIDINETHIONE mixed with SODIUM NITRITE</td>
</tr>
<tr>
<td>4,4'-((IMIDOCARBONYL)BIS(N,N-DIMETHYLAMINE) MONOHYDROCHLORIDE</td>
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<tr>
<td>4,4'-((IMIDOCARBONYL)BIS(N,N-DIMETHYLANILINE)</td>
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<tr>
<td>IMIDODICARBOXYLIC ACID, DIHYDRAZIDE</td>
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</tbody>
</table>
IMPROSULFAN TOSYLATE
13H-INDENO(1,2-c)PHENANTHRENE
INDENO(1,2,3-cd)PYRENE
INDENO(1,2,3-cd)PYREN-8-OL
INDERAL
INDIAN TURMERIC
INDIGO YELLOW
INDIUMTRICHLORIDE
1H-INDOLE-3-ACETICACID
INDOLE-3-ACRYLIC ACID
1H-INDOLE-3-BUTANOIC ACID
INDOMETHACIN
INOSINE
INSULIN
INTEGERRIMINE
IODOACETAMIDE
IODOACETIC ACID
P-IODOANILINE
2-IODOETHANOL
2-(l-IODOETHYL)-I,3-DIOXOLANE-4-METHANOL
IODOFORM
3-IODOPROPIONIC ACID
3-IODO-2-PROPYNYL-2,4,5-TRICHLOROPHENYL ETHER
IONONEIONOX 100
IPRONIAZID PHOSPHATE
IPROPLATIN
IPROPRAN
IREHDIAMINE A
IRON METHANEARSONATE
IRON (111) NITRATE, ANHYDROUS
ISOAMYL CARBAMATE
8-ISOMYLENOPYPSORALEN
ISOAMYL PHENYLACETATE
trans-ISOCARBOXAZID
trans-ISOCARBOXAZID
ISOCYANIC ACID AMIDE
ISONICOTINIC ACID AMIDE
ISONICOTINIC ACID-2-ISOPROPYLHYDRAZIDE
ISOOCTYL-2,4-DICHLOROPHENOXACETATE
ISOPENTYL NITRITE
ISOPHENOL
ISONICOTINIC ACID AMIDE
ISONICOTINIC ACID-2-ISOPROPYLHYDRAZIDE
ISOOCTYL-2,4-DICHLOROPHENOXACETATE
ISOPENTYL NITRITE
ISOPHORONE
ISOPHOSPHAMIDE
3,3'-((ISOPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYLIMINO))BIS(I-ETHYLPYRIDI
ISOPRENALINE HYDROCHLORIDE
11-ISOPROPOXY-15,16-DIHYDRO-17-CYCLOPENTA(a)PHENANTHREN-17-ONE
N-ISOPROPYL-N-(ACETOXYMETHYL)NITROSAMINE
N-ISOPROPYLACRYLAMIDE
2-ISOPROPYLAMINO-4-METHYLAMINO-6-METHYLMERCAPTO-s-TRIAZINE
a-((iSOOPROPYLAMINO)METHYL)-2-NAPHTHALENEMETHANOL
9-((3-(ISOPROPYLAMINO)PROPYL)AMINO)-l-NITROACRIDINE DIHYDROCHLORIDE
ISOPROPYLBENZENE HYDROPEROXIDE
ISOPROPYLBIPHENYL
ISOPROPYL CARBAMATE
ISOPROPYL-4,4'-DIBROMOBENZILATE
ISOPROPYL GLYCIDYL ETHER
4,4'-ISOPROPYLIDENEDIPHENOL DIMER with 1-CHLORO-2,3-EPOXYPROPANE
4,4'-ISOPROPYLIDENEDIPHENOL, MONOMER with 1-CHLORO-2,3-EPOXYPROPANE
4,4'-ISOPROPYLIDENEDIPHENOL, TETRAMER with 1-CHLORO-2,3-EPOXYPROPANE
ISOPROPYLMETHANESULFONATE
2-ISOPROPYL-4-METHYLPHENOL
2-ISOPROPYL-3-NITROSOTHIAZOLIDINE
dl-N-ISOPROPYLNORADRENALINEHYDROCHLORIDE
ISOQUINALDEHYDETHIOSEMICARBAZONE
ISOQUINOLINE
ISOSAFROLE
ISOSAFROLE-N-OCTYL SULFOXIDE
1-ISOTHIOCYANATOBUTANE
ISOTHIOCYANIC ACID-1-NAPHTHYL ESTER
ISOTHIOCYANIC ACID, PHENETHYL ESTER
ISOTHIOCYANLC ACID, PHENYL ESTER
ISOTHIOUREA
ISOVALERIC ACID, ALLYLESTER
JUNIPER TAR
KANAMycin
KARMINOMCYN
KARMINOMCYN HYDROCHLORIDE
KAYAKU FAST RED 3GL BASE
KEPONE
KERACYANIN
KEROSENE
KETHOXAL-BIS-THIOSEMICARBAZONE
KETOCONAZOLE
4-KETONIRIDAZOLE
KHAT LEAF EXTRACT
LACTIC ACID
E-LACTONEHEXANOICACID
LAETRILE
LANTHANUM ACETATE
LANTHANUM CHLORIDE
LANTHANUM NITRATE
LASIOPCARPINE
LAURIC ACID
LAURIC ACID, SODIUM SALT
LAURYL DIMETHYLDICHLOROBENZYLAMMONIUM CHLORIDE
LAURYL MERCAPTAN
LEAD
LEAD ACETATE
LEAD ACETATE, BASIC
LEAD ACETATE(II), TRIHYDRATE
LEAD CHLORIDE
LEAD CHROMATE
LEAD CHROMATE, BASIC
LEAD DIACETATE
LEAD DIMETHYLDITHIOCARBAMATE
LEAD-MOLYBDENUM CHROMATE
LEAD MONOXIDE
LEAD(II) NITRATE (1:2)
LEAD(II) PHOSPHATE (3:2)
LEAD(II) SULFATE (1:1)
LEDAKRIN
4-LEPIDINE
LEPIDINE-1-OXIDE
LEPTOPHOS
LEUCOQUINIZARIN
LEUROCRISTINE
LEUROCRISTINESULFATE(1:1)
LEVAMISOLE HYDROCHLORIDE
LIBRIOUM
LIGNOSULFONIC ACID, SODIUM SALT
LINALOOL
LINCOMYCIN
LITHIUM ACETATE
LITHIUMCARBONATE(2:1)
LITHIUM CHLORIDE
LITHIUMSULFATE(2:1)
LITHOCHOLIC ACID
LITHOCHOLIC ACID TAUrine CONJUGATE
LOPATOL
LUCANTHONE METABOLITE
LUCENSOMYCIN
LUCIDIN
LUNAMYCIN
LUTEOSKYRIN
2,4-LUTIDINE
2,6-LUTIDINE
LYCURIM
d-LYSERGICACIDDIETHYLAMIDETARTRATE
MADDER (DYE)
MAGENTA
MAGENTA BASE
MAGNESIUM ACETATE
MAGNESIUM BIS(2,3-DIBROMOPROPYL)PHOSPHATE
MAGNESIUM CHLORIDE
MAGNESIUM CHLORIDE HEXAHYDRATE
MAGNESIUM SULFATE (1:1)
MALACHITE GREEN OXALATE
MALATHION
MALEIC ACID
MALEIC ACID-N-ETHYLIMIDE
MALEIC ANHYDRIDE
MALONALDEHYDE DIETHYL ACETAL
MALTOL
MANDELIC ACID NITRILE
MANGANESE ACETATE
MANGANESE(II) CHLORIDE (1:2)
MANGANESE(II) ETHYLENEBIS(DITHIOCARBAMATE)
MANGANESE(II) NITRATE
MANGANESE(II) SULFATE (1:1)
MANGANESE SULFATE MONOHYDRATE
MANGANESE(II) SULFATE TETRAHYDRATE (1:1:4)
MANNOMUSTINE
MANNOMUSTINE DIHYDROCHLORIDE
MANNOSULFAN
MARASMIC ACID
MARCELLOMYCIN
MAYTANSINE
MAZINDOL
7-MBA-3,4-DIHYDRODIOL
MDBCP
MEBANAZINE OXAL-ATE
MEDROXYPROGESTERONE ACETATE
MELAMINE
MELIPAN
MENADIONE SODIUM HYDROGEN SULFITE
p-MENTHANE-8-HYDROPEROXIDE
dl-MENTHOL
l-MENTHOL
MENTHONE
MEPYRAPONE
2-MERCAPTOETHANOL
2-MERCAPTOETHYLAMINE HYDROCHLORIDE
2-MERCAPTO-1-METHYLIMIDAZOLE
6-MERCAPTOPURINE MONOHYDRATE
MERCAPTOPURINE RIBONUCLEOSIDE
2-MERCAPTO-I-(b-4-PYRIDYLETHYL) BENZIMIDAZOLE
d,3-MERCAPTOVALINE
MERCURIC ACETATE
MERCURIHENYL NITRATE
MERCURIOCHROME
MERCURIOUS CHLORIDE
MERCURY
MERCURY(II) CHLORIDE
MERCURY METHYLCHLORIDE
MESERINE
MESITYLALDEHYDE
MESOXALYLUREA MONOHYDRATE
METAMIZOL MONOHYDRATE
METANIL YELLOW
METHACRYLIC ACID, BUTYL ESTER, polymer with 2-(DIMETHYLAMINO)ETHYL
METHACRYLIC ACID, DIESTER with TRIETHYLENE GLYCOL
METHACRYLIC ACID, polymer with ETHYL ACRYLATE
dl-METHADONE
l-METHADONE
METHADONE HYDROCHLORIDE
METHAMINODIAZEPoxide HYDROCHLORIDE
METHANEARSONIC ACID, MONOAMMONIUM SALT
METHANESULFONIC ACID
METHANESULFONYL CHLORIDE
METHDILAZINE HYDROCHLORIDE
l-METHIONINE
METHOTREXATE
METHOTREXATE SODIUM
METHOXYACETALDEHYDE
METHOXYACETIC ACID
4'-l-METHOXY-9-ACRIDINYLAMINO)METHANESULFONANILIDE
4'-l-METHOXY-9-ACRIDINYLAMINO)METHANESULFONALIDE
4'-4-METHOXY-9-ACRIDINYLAMINO)METHANESULFONANILIDE
2-METHOXY-4-AMINOAZOBENZENE
6-METHOXY-2-AMINOBENZOTHIAZOLE
1-METHOXYANTHRAQUINONE
6-METHOXYARISTOLOCHIC ACID D
2-(p-METHOXYBENZAMIDO)ACETOXYDROXAMIC ACID
3-METHOXYBENZANTHRONE
2-METHOXY-1,4-BENZENEDIAMINE
2-METHOXY-1,4-BENZENEDIAMINE SULFATE
2-METHOXY-4H-1,2,3-BENZODIOXAPHOSPHORINE-2-SULFIDE
6-METHOXYBENZO(a)PYRENE
6-METHOXYBENZOAZolinone
8-METHOXYCAFFEINE
4'-METHOXYCARBONYL-N-ACETOXY-N-METHYL-4-AMINOAZOBENZENE
3-METHOXYCARBONYLMINOPHENYL N-
4'-METHOXYCARBONYL-N-BENZOXYOXY-N-METHYL
N-(2-METHOXYCARBONYLETHYL)-N-(l-ACETOXYBUTYL)NITROSAMINE
N-(2-METHOXYCARBONYLETHYL)-N-(ACETOXYMETHYL)NITROSAMINE
4'-METHOXYCARBONYL-N-HYDROXY-N-METHYL-4-AMINOAZOBENZENE
N-(METHOXYCARBONYLMETHYL)-N-(ACETOXYMETHYL)NITROSAMINE
N-METHOXYCARBONYLMETHYL-N-NITROSOUREA
N-(3-METHOXYCARBONYLPROPYL)-N-(l-ACETOXYBUTYL)NITROSAMINE
N-(3-METHOXYCARBONYLPROPYL)-N-(ACETOXYMETHYL)NITROSAMINE
METHOXYCHLOR
2-METHOXY-6-CHLORO-9-(3-(2-CHLOROETHYL)AMINOPROPYLAMINO) ACRIDINE DIH
O-METHOXYCINNAMALDEHYDE
2-METHOXY-p-CRESOL
2-METHOXY-3,6-DICHLOROBENZOIC ACID
5-METHOXYDIHYDROSTERICATOCYSTIN
2-METHOXY-7,12-DIMETHYLBENZ(a)ANTHRACENE
3-METHOXY-7,12-DIMETHYLBENZ(a)ANTHRACENE
4-METHOXY-7,12-DIMETHYLBENZ(a)ANTHRACENE
9-METHOXY-1,3-DIOXOLO(4,5-G)FURO(2,3-B)QUINOLINE
METHOXYYELLipticINe
METHOXYETHYL MERCURIC ACETATE
2-METHOXYETHYL MERCURY CHLORIDE
4-METHOXY-2-HYDROXYBENZOPHENONE
3-METHOXY-1 7-METHYL-5H-CYCLOPENTAPHENANTHRENE
11-METHOXY-1 7-METHYL-5H-CYCLOPENTAPA PHENANTHRENE
6-METHOXY-1 1-METHYL-15,16-DIHYDRO-17H-CYCLOPENTA(a) PHENANTHREN-17-0
3-METHOXY-6-METHYLINDOLO(3,2-C)QUINOLINE-1,4-DIONE
8-METHOXY-1-METHYL-4-((p-((p-(I-METHYLPYRIDINIUM-4-YL)AMINO)PHENYL)CARB
6-METHOXY-1-METHYL-4-((p-((p-(I-METHYLPYRIDINIUM-4-YL)AMINO)PHENYL)CARB
4-METHOXY-N-METHYLNAPHTHALIMIDE
7-METHOXY-1-METHYL-2-NITRONAPHTHO(2,1-b)FURAN
3-METHOXY-6-METHYL-1 H-PYRIDO(3',4';4,5)PYRROLO(3,2-C)QUINOLINE-1,4-DIONE
3-METHOXY-6-METHYL-7,8,9,1 0-TETRAHYDRO-1 1 H-INDOLO(3,2-C)QUINOLINE-1,4-DI
6-METHOXY-3-METHYL-1,7,8-TRIHYDROXANTHRAQUINONE
(+)-2-(METHOXY-2-NAPHTHYL)-PROPIONIC ACID
3-METHOXY-4-NITROAZOBENZENE
2-METHOXY-5-NITRO-1,4-BENZENEDIAMINE
5-METHOXY-2-NITROBENZOFURAN
7-METHOXY-2-NITRONAPHTHO(2,1-b)FURAN
8-METHOXY-2-NITRONAPHTHO(2,1-b)FURAN
4-METHOXYPHENOL
2-METHOXY-4-PHENYLAMINO
p-((p-METHOXYPHENYL)AZO)ANILINE
4-METHOXY-m-PHENYLENEDIAMINE
1-(p-METHOXYPHENYL)-3-METHYL-3-NITROSOUREA
7-(4-(3-METHOXYPHENYL)-I-PIPERAZINYL)-4-NITROBENZOFU RAZAN-1-OXIDE
9-(2-METHOXY-4-(PROPYSULFONAMIDO)ANILINO)-4-ACRIDINECARBO)(AMIDE HYD
NI-(3-METHOXY-2-PYRAZINYL)SULFANILAMIDE
3-METHOXY-IH-PYRIDO(3',4';4,5)PYRROLO(3,2-C)QUINOLINE-1,4(11H)-DIONE
5-METHOXYTRYPTAMINE
METHYLACETAMIDE
METHYL ACETATE
METHYL ACETYLENE
N-METHYL-N'-(p-ACETYLPHENYL)-N-NITROSOUREA
N-METHYL-N'ACETYLUREA
4'-2-(METHYL-9-ACRIDINYLAMINO)METHANESULFONANILIDE
4'-3-(METHYL-9-ACRIDINYLAMINO)METHANESULFONANILIDE
4'-4-(METHYL-9-ACRIDINYLAMINO)METHANESULFONANILIDE
METHYLACRYLALDEHYDE
N-METHYLACRYLAMIDE
METHYL ALCOHOL
METHYLAMINE
9-(p-(METHYLAMINO)ANILINO)ACRIDINE HYDROBROMIDE
METHYLAMINO-BIS(I-AZIRIDINYL)PHOSPHINE OXIDE
P-METHYLAMINOPHENOLSULFATE
2-METHYL-p-ANISIDINE
5-METHYL-o-ANISIDINE
2-METHYLANTHRAcene
9-METHYLANTHRAcene
METHYLMARISTOLATE
METHYLAZOXYMETHANOL-b-D-GLUCOSIDURONIC ACID
METHYLAZOXYMETHYL ACETATE
3-METHYLBENZ(e)ACEPHANANTHRYLENE
7-METHYLBENZ(c)ACRIDINE
7-METHYLBENZ(c)ACRIDINE 3,4-DIHYDRODIOL
1-METHYLBENZ(a)ANTHRACENE
2-METHYLBENZ(a)ANTHRACENE
3-METHYLBENZ(a)ANTHRACENE
4-METHYLBENZ(a)ANTHRACENE
5-METHYLBENZ(a)ANTHRACENE
6-METHYLBENZ(a)ANTHRACENE
8-METHYLBENZ(a)ANTHRACENE
9-METHYLBENZ(a)ANTHRACENE
10-METHYLBENZ(a)ANTHRACENE
10-METHYL-1,2-BENZANTHRACENE
11-METHYLBENZ(a)ANTHRACENE
12-METHYLBENZ(a)ANTHRACENE
7-METHYLBENZ(a)ANTHRACENE-5,6-OXIDE
METHYL-2-BENZIMIDAZOLE METHYL
METHYL BENZIMIDAZOLE-2-YL CARBAMATE
1-METHYLBENZO(a)PYRENE
2-METHYLBENZO(a)PYRENE
4-METHYLBENZO(a)PYRENE
4’-METHYLBENZO(a)PYRENE
5-METHYLBENZO(a)PYRENE
10-METHYLBENZO(a)PYRENE
11-METHYLBENZO(a)PYRENE
12-METHYLBENZO(a)PYRENE
METHYLBENZOTHIAZIDINE CARBAMATE
3-METHYL-2(3H)-BENZOTHIAZOLONE HYDRAZONE HYDROCHLORIDE
7-METHYL-6H-(l)BENZOTHIOPYRANO(4,3-b)QUINOLINE
METHYL-1 H-BENZOTRIAZOLE
METHYL-5-BENZOYL BENZIMIDAZOLE-2-CARBAMATE
5-METHYL-3,4-BENZPYRENE
8-METHYL-3,4-BENZPYRENE
N-METHYL-N-BENZYL-NITROSAMINE
METHYL BOTRYODIPLODIN
METHYL BROMIDE
2-METHYL-4-BROMOANILINE
METHYL 1-BROMOVINYL KETONE
N-3-METHYLBUTYL-N-1 -METHYL ACETONYLNITROSAMINE
METHYLIBUTYNITROSAMINE
METHYL CARBAMATE
METHYL carbamic acid-O-CUMENYL ESTER
METHYL carbamic acid M-TOLYL ESTER
N-METHYL-N-(3-CARBOXYPROPYL)NITROSAMINE
METHYL CHLORIDE
METHYL-2-CHLOROACRYLATE
N’-METHYL-N’-b-CHLOROETHYL BENZALDEHYDE HYDRAZONE
N’-METHYL-N’-b-CHLOROETHYL-(p-DIMETHYLAMINO)-BENZALDEHYDE HYDRAZONE
METHYL CHLOROFORM
METHYLCYCLOTHIАЗIDE
3-METHYLCOLANTHREN-2-ONE
3-METHYLCOLANTHREN-11,12-OXIDE
20-METHYLCOLANThREN-1 5-ONE
1-METHYLCYCLOPENTENE
2-METHYLCYCLOPENTENE
3-METHYLCYCLOPENTENE
4-METHYLCYCLOPENTENE
5-METHYLCYCLOPENTENE
6-METHYLCYCLOPENTENE
anti-5-METHYLCYCLOPENTENE-1,2-DIOL-3,4-EPOXIDE
6-METHYLCOUMARIN
METHYL 2-CYANOACRYLATE
METHYL 2-CYANO-3-(2-BROMOPHENYL)ACRYLATE
17-METHYL-15H-CYCLOPENTa(a)PHENANTHRENE
METHYLCYCLOTHIАЗIDE
N-METHYL-N-DESACETYLCOLCHICINE
2'-METHYL-2,4-DIAMINO-3-METHYLazoBENZENE
N-METHYL-3:4:5:6-DIBENZCARBAZOLE
trans-3-METHYL-7,8-DIHYDROCOLANTHREN-7,8-DIOL
trans-3-METHYL-9,10-DIHYDROCOLANTHREN-9,10-DIOL
11'-METHYL-1 5,16-DJHYDRO-1 7-OXOCYcLOPENTa(a)PHENANTHRENE
N-METHYL-N,p-DINITROSOANILINE
2-METHYLDINITROSPiperazine
N,N’-METHYLENEBIS(ACRYLAMIDE)
N,N’-METHYLENEBIS(2-AMINO-1,3,4-ThIADIAZOLE)
4,4’-METHYLENE BIS(2-CHLOROANILINE)
2,2’-METHYLENEBIS(4-CHLOROPHENOL)
4,4’-METHYLENE BIS(N,N’-DIMETHYLANILINE)
4,4’-METHYLENEBIS(2-ETHYLBENZENAMINE)
4,4’-METHYLENEBIS(N-METHYLANILINE)
4,4’-METHYLENEBIS(2-METHYLANILINE)
METHYLENE BISPHENYL ISOCYANATE
METHYLENE CHLORIDE
4,4’-METHYLENEDIANILINE
4,4’-METHYLENEDIANILINE DIHYDROCHLORIDE
METHYLENE DIMETHANESULFONATE
1-(3,4-METHYLENEDIOXYPHENYL)-2-AMINOPROPANE
METHYLERGONOVINE MALEATE
METHYL ETHANE SULPHONATE
2-METHYL-6-ETHYL ANILINE
N,N-METHYLETHYL NITROSAMINE
3-METHYL-5-ETHYL-5-PHENYLHYDANTOIN
3-METHYLTHYNYL NITROSAMINE
9 METHYLFUORENE
2-METHYLFURAN
5-METHYL FURFURAL
METHYL HYDRAZINE
METHYLHYDRAZINE OXALATE
METHYL IODIDE
N-METHYLISATIN-3-(THIOSEMICARBAZONE)
METHYL ISOYCANTATE
METHYL ISOPROPYL KETONE
3-METHYL-5-ISOTHIAZOLAMINE HYDROCHLORIDE
1-METHYLYSERGIC ACID BUTANOLAMIDE
METHYL MARASMAE
METHYL MERCAPTAN
METHYLMERCURY
METHYLMERCURY HYDROXIDE
METHYL MESYLATED
METHYL METHACRYLATE
I-METHYL-6-(I-METHYLALLYL)-2,5-DITHIOBIUREA
N-METHYL-4’-(p-METHYLAMINOPHENYL)ACETANILIDE
5-METHYL-6-METHYLAMINOQUINOXALINE
METHYL 5-METHYL-3-(5-NITRO-2-FURYL)-4-ISOXAZOLYL KETONE METHYL
1-METHYL-3-((I-METHYL-4-NITRO-1-H-IMIDAZOL-2-YL)METHYLENE)-2-PYRROLIDINON
2-METHYL-3-(I-METHYL-5-NITRO-1-H-IMIDAZOL-2-YL)-2-PROPEN-1-OL
4-METHYL-6-((2-METHYLPHENYL)AZO)-1,3-BENZENEDIAMINE
1-METHYL-4-((p-(I-METHYLQUINOLINIUM-6-YL)CARBAMOYL)BENZAMIDO)ANILINO)QUINOLINUM
1-METHYL-6-((p-(I-METHYLQUINOLINIUM-6-YL)CARBAMOYL)BENZAMIDO)BENZA
1-METHYL-2-(METHYLTHIO)-1H-IMIDAZOLE-4,5-DIMETHANOL BIS(METHYLCARBAMATE)
2-METHYL-2-(METHYLTHIO)PROPANAL OXIME
METHYLMETIRAM
N-METHYLMITOMYCIN C
1-METHYLNAPHTHALENE
2-METHYLNAPHTHALENE
2-METHYL-1,4-NAPHTHOQUINONE
METHYL NITRITE
2-METHYL-4-NITROANILINE
2-METHYL-1-NITROANTHRAQUINONE
2-METHYL-5-NITRO-1,4-BENZENEDIAMINE
2-METHYL-6-NITRO-1,4-BENZENEDIAMINE
1-METHYL-2-NITROBENZIMIDAZOLE
4-METHYL-1-((5-NITROFURFURYLIDENE)AMINO)-2-IMIDAZOLIDINONE
METHYL 3-(5-NITRO-2-FURYL)-5-PHENYL-4-ISOXAZOLYL KETONE METHYL
2-METHYL-4-(5-NITRO-2-FURYL)THIAZOLE
1-METHYL-3-NITROGUANIDINE mixed with SODIUM NITRITE (1:1)
1-METHYL-2-NITROIMIDAZOLE
1-METHYL-4-NITRO-IH-IMIDAZOLE
2-METHYL-5-NITROIMIDAZOLE
4-METHYL-5-NITROIMIDAZOLE
2-METHYL-5-NITROIMIDAZOLE-1 -ETHANOL
1 -METHYL-5-NITROIMIDAZOLE-2-METHANOL
1-METHYL-5-NITROIMIDAZOLE-2-METHANOL CARBAMATE (ESTER)
2-METHYL-1 -NITRO-NAPHTHALENE
N-METHYL-N' -NITRO-N-NITROSOGUANIDINE
1-((4-METHYL-2-NITROPHENYL)AZO)-2-NAPHTHALENOL
1 -METHYL-5-NITRO-2-(2-PHENYL-1 -PROPENYL)-I H-IMIDAZOLE
1 -METHYL-5-NITRO-2-((PHENYLSULFONYL)METHYL)-I H-IMIDAZOLE
2-METHYL-4-NITROPYRIDINE-1 -OXIDE
3-METHYL-4-NITROPYRIDINE-1 -OXIDE
2-METHYL-4-NITROQUINOLINE-1 -OXIDE
3-METHYL-4-NITROQUINOLINE-1 -OXIDE
5-METHYL-4-NITROQUINOLINE-1 -OXIDE
6-METHYL-4-NITROQUINOLINE-1 -OXIDE
7-METHYL-4-NITROQUINOLINE-1 -OXIDE
8-METHYL-4-NITROQUINOLINE-1 -OXIDE
1-(METHYLNITROSAMINO)-2-BUTANONE
4-(METHYLNITROSAMINO)-2-BUTANONE
4-(N-METHYL-N-NITROSAMINO)-I -(3-PYRIDYL)-I-BUTANONE
METHYLNITROSACETAMIDE
N-METHYL-N-NITROSOALLYLAMINE
N-METHYL-N-NITROSOANILINE
N-METHYL-N-NITROSOBENZAMIDE
N-METHYL-N-NITROSOBIURET
METHYLNITROSOCARBAMICACID-o-CHLOROPHENYL ESTER
METHYLNITROSOCARBAMIC ACID-((1,3-DIOXOLAN-2-YL)PHENYL ESTER
METHYLNITROSOCARBAMIC ACID-a-(ETHYLTHIO)-o-TOLYL ESTER
METHYLNITROSOCARBAMICACID-o-ISOPROPYLPHENYLESTER
METHYLNITROSOCARBAMICACID-3,5-XYLYL ESTER
1-METHYL-1-NITROSO-3-(p-CHLOROPHENYL)UREA
METHYLNITROSOCYANAMIDE
N-METHYL-N-NITROSODECYLAMINE
N-METHYL-N-NITROSOETHYLCARBAMATE
1-METHYL-1-NITROSO-3-PHENYLUREA
3-METHYLNITROSOPIPERIDINE
4-METHYLNITROSOPIPERIDINE
3-METHYL-1-NITROSO-4-PIPERIDONE
N-METHYL-N-NITROSO-1-PROPANAMINE
1 -METHYL-1 -NITROSO-3-(p-TOLYL)UREA
d-1-(3-METHYL-3-NITROSOUREIDO)-I-DEOXYGALACTOPYRANOSE
1-METHYL-2-NITRO-5-VINYL-IH-IMIDAZOLE
O-METHYL NOGALAROL
N-METHYLOL DIMETHYLPHOSPHONOPROPIONAMIDE
METHYL ORANGE
1 1-METHYL-1-OXO-1,2,3,4-TETRAHYDROCHRYSENE II METHYL
METHYLOXYLAMMONIUM CHLORIDE
METHYL PARATHION
METHYL PENTACHLOROPHENATE
1-METHYLPHENANTHRENE
2-METHYLPHENANTHRENE
5-METHYLPHENAZINE METHYLSULFATE
N-METHYL-p-(PHENYLAMINO)ANILINE
p-(3-METHYLPHENYLAMINO)ANILINE
2-METHYL-4-(PHENYLAMINO)-1,3-BENZENEDIAMINE
N-METHYL-o-PHENYLENEDIAMINE
METHYL-PHENYLETHYL-NITROSAMINE
4-METHYLPHENYLHYDRAZINE HYDROCHLORIDE
3-METHYLPHENYL-N-METHYL-N-NITROSOCARBAMATE
3-METHYLPHENYL PHENYL ETHER
N-METHYL-2-PHENYL-SUCCINIMIDE
N-METHYL-N'-PHENYL THIOUREA
3-METHYL-1-PHENYLTRIAZENE
p-(5-(5-(4-METHYL-1-Piperazinyl)-2-BENZIMIDAZOLYL)-2-BENZIMIDAZOLYL)-PHEN
10-(2-((1-METHYL-2-PIPERIDYL)ETHYL)-2-(METHYLTHIO)PHENOTHIAZINE
10-(2-((1-METHYL-2-PIPERIDYL)ETHYL)-2-METHYLTHIOPHENOTHIAZINE HYDROCHLORIDE
4-(2-(2-(2-METHYL-1-PROPENYL)-5-NITRO-1H-IMIDAZOL-1-YL)ETHYL)MORPHOLINE
2-(1-METHYLPROPYL)PHENYL METHYLCARBAMATE
2-METHYLPYRAZINE
3-METHYLPYRENE
a-METHYL-2-PYRENEMETHANOL
2-METHYLPYRIDINE
1-METHYL-9H-PYRIDO(3,4-b)INDOLE
1-METHYLPERROLE
1-METHYLPERROLE-2,3-DIMETHANOL
N-METHYLPERROLIDONE
6-METHYLQUINOLINE
N-METHYL-QUINOLINE 5,6-OXIDE
B-METHYLCAPTOZOTOCIN
P-METHYSTREPTOZOTOCIN
9-(p-(METHYSULFONAMIDO)ANILINO)-3-ACRIDINE CARBAMIC ACID METHYL ESTER
N-(9-(p-(METHYSULFONAMIDO)ANILINO)ACRIDIN-3-YL)ACETAMIDE
4-o-METHYL-12-o-TETRADECANOLYPHORBOL-13-ACETATE
N-(5-METHYL-1,3,4-THIADIAZOL-2-YL)-SULFANILAMIDE DI
2-METHYLTHIAZOLIDINE
2-METHYLTHERO-4-ETHYLAMINO-6-ISOPROPYLAMINO-s-TRIAZINE
METHYLTHIOINOSINE
N-METHYL-p-(m-TOLYLAMINO)ANILINE
2-METHYL-4-((o-TOLYL)AZOANILINE) HYDROCHLORIDE
3-METHYL-1-(p-TOLYL)-TRIAZENE
5-(3-METHYL-1-TRIAZENO)MIDAZOLE-4-CARBOXAMIDE
6-METHYL-1,3,8-TRIHYDROXYANTHRAQUINONE
N-METHYLMUREA
2-METHYL-1,5-VALERODINITRILE
METHYL VINYL CARBINOL
METHYL VIOLET BB
METHYSERGIDE DIMALEATE
METIRAM
METOLACHLOR
METOPRINE
METOXURON
MEVINPHOS
MIANG TEA LEAF EXTRACT
MICHLERS KETONE
MICONAZOLE
MILOXACIN
MILTOWN
MINERAL OIL, PETROLEUM DISTILLATES, HEAVY NAPHTHENIC
MINERAL OIL, PETROLEUM DISTILLATES, HEAVY PARAFFINIC
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (mild) HEAVY NAPHTHEN
MINERAL OIL, PETROLEUM DISTILLATES, LIGHT PARAFFINIC
MINOCYCLINE
MIREX
MITHRAMYCIN
MITOMYCIN B
MITONAFIDE
MITOXANTRONE
MITOXANTRONE HYDROCHLORIDE
MITOZOLOMIDE
MODECCIN TOXIN
M OGALAROL
MOLYBDENUM
MOLYBDENUM PENTACHLORIDE
MOLYBDENUM TRICHLORIDE
MONENSIC ACID
MONO-ACETIN
MONOBROMOGLYCEROL
MONOCROTALINE
MONOCROTYPHOS
MONO(2,3-DIBROMOPROPYL)AMMONIUM PHOSPHATE
MONO(2,3-DIBROMOPROPYL)PHOSPHATE
MONOETHYLHEXYL PHTHALATE
8-MONOHYDRO MIREX
MONONITROSOCIMETIDINE
MONONITROSOPIPERAZINE
MONOPOTASSIUM GLUTAMATE
MONOSODIUM METHYLARSONATE
MONOTHIOGLYCEROL
MORIN
(-)-MORPHINE
MORPHINE SULFATE
MORPHOLINE
MORPHOLINE ETHANOL
MORPHOLINODAUNOMYCIN
3'-MORPHOLINO-3'-DEAMINODAUNORUBICIN
4-MORPHOLINO-2-(5-NITRO-2-THIENYL)QUINAZOLINE
MOXNIDAZOLE
MUCOCHLORIC ACID
MYCOPHENOLIC ACID
MYRISTIC ACID
MYRISTICIN
N-MYRISTOXYLOXY-N-MYRISTOYL-2-AMINOFLUORENE
NAFOXIDINE
NAFOXIDINE HYDROCHLORIDE
I-NALOXONE
NALTREXONE HYDROCHLORIDE
NAPHTH(2,1-d)ACENAPHTHYLENE
NAPHTHACENE
1 -NAPHTHALENEACETIC ACID
1,5-NAPHTHALENEDIAMINE
1,3-NAPHTHALENEDIOL
1,5-NAPHTHALENEDIOL
NAPHTHALENE LEATHER RED R
1-NAPHTHALENESULFONIC ACID, 2-((2-HYDROXY-1-NAPHTHALENYL)AZO)-, MONOS
NAPHTHO(1,2,3,4-deOCHRYSENE
A-NAPHTHOFLUORENE
2-NAPHTHODYROXAMIC ACID
1-NAPHTHOL
2-NAPHTHOL
NAPHTHOL GREEN B
NAPHTHOL RED 6
1-NAPHTHONITRILE
2-NAPHTHONITRILE
NAPHTHO(2',l':6,7)PHENANTHRO(3,4-B)OXIRENE-2,3-DIOL, IA,2,3,13C-TETRAHYDRO
NAPHTHO(2,3-OQUINOLINE
N-(2-NAPHTHOYL)-o-PROPIONYLHYDROXYLAMINE
1 -NAPHTHYL ACETATE
N-2-NAPHTHYLACETOHYDROXAMIC ACID
B-NAPHTHYLAMINE
1-NAPHTHYLAMINE
N-(l-NAPHTHYL)ETHYLENEDIAMINE DIHYDROCHLORIDE
1-NAPHTHYL-N-ETHYL-N-NITROSOCARBAMATE
A-NAPHTHYLFLAVONE
2-NAPHTHYLHYDROXYLAMINE
B-NAPHTHYL ISOBUTYL ETHER
1-NAPHTHYLMETHYL GLYCIDYL ETHER
1-NAPHTHYL METHYL NITROSOCARBAMATE
2-NAPHTHYL-p-PHENYLENEDIAMINE
1-NAPHTHYL-N-PROPYL-N-NITROSOCARBAMATE
NEMBUTAL SODIUM
NEOABIETIC ACID
NEOCARZINOSTATIN
NEOCHROMIUM
NEOMYCIN SULFATE
NEOPENTYL GLYCOL DIGLYCIDYL ETHER
NEOPRENE
NEREISTOXIN DIBENZENESULFONATE
NETROPSIN
NEUTRAL AMMONIUM CHROMATE
NGAI CAMPHOR NGAI
NIACINAMIDE
NICARBAZIN
NICKEL
NICKEL(II) ACETATE (1:2)
NICKEL ACETATE TETRAHYDRATE
NICKEL(II) CARBONATE (1:1)
NICKEL CARBONATE HYDROXIDE
NICKEL(II) CHLORIDE HE)(AHYDRATE (1:2:6)
NICKEL(II) FLUORIDE (1:2)
NICKEL MONOXIDE
NICKEL(II) NITRATE (1:2)
NICKELOUS CHLORIDE
NICKEL PEROXIDE
NICKEL SUBARSENIDE
NICKEL SUBSELENIDE
NICKEL SUBSULFIDE
NICKEL SULFATE
NICKEL2+ SULFATE HEPTAHYDRATE
NICKEL(II) SULFATE HE>(AHYDRATE (1:1:6)
NICKEL SULFIDE
NICKEL SULFIDE
NICOTINE
NIFURPIRINOL
NIFURTHIAZOLE
NIMUSTINE
NIOBIUM CHLORIDE
NITRIC OXIDE
NITRILOTRIACETIC ACID TRISODIUM SALT MONOHYDRATE
5-NITROACENAPHTHENE
3-NITRO-p-ACETOPHENETIDIDE
2'-NITROACETOPHENONE
P-NITROACETOPHENONE
4'-(3-NITRO-9-ACRIDINYLAMINO)METHANESULFONANILIDE
2-NITRO-4-AMINOPHENOL
p-NITRO-o-AMINOPHENOL
P-NITROANILINE
3-NITRO-p-ANISANILIDE
5-NITRO-o-ANISIDINE
O-NITROANISOLE
P-NITROANISOLE
2-NITROANTHRACENE
5-NITROANTHRACENE
4-NITROANTHRANILIC ACID
1-NITROANTHRAQUINONE
P-NITROAZOBENZENE
2-NITROBENZALDEHYDE
3-NITROBENZALDEHYDE
4-NITROBENZALDEHYDE
2-(p-NITROBENZAMIDO)ACETOXYHIDROXAMIC ACID
7-NITRO BENZ(A)ANTHRACENE
NITROBENZENE
P-NITROBENZENEAZOSALICYLIC ACID
4-NITROBENZENEDIAZONIUM FLUOBORATE
2-NITROBENZIMIDAZOLE
6-NITRO-BENZIMIDAZOLE
2-NITROBENZOFURAN
2,2'-(7-NITRO-4-BENZOFURAZANYL)IMINO)BISETHANOL OXIDE
M-NITROBENOIC ACID
O-NITROBENOIC ACID
M-NITROBENZONITRILE
O-NITROBENZONITRILE
P-NITROBENZONITRILE
1-NITROBENZO(a)PYRENE
2-NITROBENZOYL CHLORIDE
4-NITROBENZOYL CHLORIDE
M-NITROBENZOYLCHLORIDE
3-NITROBENZ(a)PYRENE
6-NITROBENZ(a)PYRENE
4-NITROBENZYL ACETATE
2-NITROBENZYL ALCOHOL
4-NITROBENZYL BROMIDE
M-NITROBENZYLCHLORIDE
P-NITROBENZYL CHLORIDE
2-NITROBENZYL CHLORIDE
2-NITROBENZYL NITRILE
O-NITROBIPHENYL
P-NITROBIPHENYL
2-NITROBROMOBENZENE
3-NITROBROMOBENZENE
4-NITROBROMOBENZENE
2-NITRO-9H-CARBAZOLE
1-NITRO-2-CARBOXYANTHRAQUINONE
4-NITROCHALCONE
P-NITROCHLOROBENZENE
4-NITRO-7-CHLOROBENZOFURAZAN
3-NITRO-4-CHLOROBENZOTRIFLUORIDE 3 NITRO
6-NITROCHRYSENE
4-NITROCINNAMIC ACID
4-NITRO-m-CRESOL
2-NITRO-6H-DIBENZO(b,d)PYRANE
2,7-DIHYDROPYRENE
I-NITRO-9-(5-DIMETHYLAMINOPENTYLAMINO)-ACRIDINE DIHYDROCHLORIDE
1-NITRO-9-(3'-DIMETHYLAMINOPROPYLAMINO)-ACRIDINE
3-NITRO-9-(3'-DIMETHYLAMINOPROPYLAMINO)ACRIDINE
2-NITRO-9-(3'-DIMETHYLAMINOPROPYLAMINO)ACRIDINE DIHYDROCHLORIDE
2-NITRO-N,N-DIMETHYLAMINILINE
NITROETHANE
2-NITROETHANOL
4-NITRO-2-ETHYLQUINOLINE-N-OXIDE
2-NITROFLUORANTHENE
3-NITROFLUORANTHENE
2-NITROFLUORENE
3-NITRO-9H-FLUORENE
2-NITRO-9-FLUORENONE
3-NITRO-9-FLUORENONE
5-NITRO-2-FURALDEHYDE ACETYLHYDRAZONE
5-NITROFURALDEHYDE DIACETATE
5-NITRO-2-FURALDEHYDE OXIME
5-NITRO-2-FURALDEHYDE THIOSEMICARBAZONE
5-NITRO-2-FURAMIDOXIME
2-NITROFURAN
5-NITRO-2-FURANMETHANOL
NITROFURANTOIN
NITROFURAZONE
5-NITROFURFURAL
4-((5-NITROFURFURYLIDENE)AMINO)-3-METHYLTHIOMORPHOLINE-1,l-DIOXIDE
3-((5-NITROFURFURYLIDENE)AMINO)-2-OXAZOLIDONE
5-NITRO-2-FUROHYDRAZIDE IMIDE
5-NITROFUROIC ACID
3-(5-NITRO-2-FURYL)ACRYLIC ACID
N-((3-(5-NITRO-2-FURYL)-1,2,4-OXADIAZOLE-5-YL)METHYL)ACETAMIDE
3-(5-NITRO-2-FURYL)-2-PHENYLACRYlamIDE
3-(5-NITRO-2-FURYL)-2-PROPENAMIDE
4-(5-NITRO-2-FURYL)THIAZOLE
N-(4-(5-NITRO-2-FURYL)-2-THIAZOLYL)FORMAMIDE
N-(4-(5-NITRO-2-FURYL)-2-THIAZOLYL)-2,2,2-TRIFLUOROACETAMIDE
3-(5-NITRO-2-FURYL)-3',4',5'-TRIMETHOXYACRYLOPHENONE
NITROGEN DIOXIDE
NITROGEN OXIDE
NITROGLYCERIN
2-NITRO-7,8,9,10,11,12-HEXAHYDROCHRYSENE
1 -NITRO-9-(HYDROXYETHYLAMINO)-ACRIDINE HYDROCHLORIDE
2-NITROIMIDAZOLE
4-NITRO-1 H-IMIDAZOLE (9CI)
4-(2-(5-NITROIMIDAZOL-1 -YL)ETHYL)MORPHOLINE
1-(2-NITROIMIDAZOL-1-YL)-3-METHOXYPROPAN-2-OL
3-(2-NITROIMIDAZOL-1-YL)-I,2-PROPANEDIOL
7-NITROINDAZOLE
5-NITROINDOLE
N-NITROMETHYLAMINE
2-NITRO-3-METHYL-5-CHLOROBENZOFURAN
1-NITRONAPHTHALENE
2-NITRONAPHTHALENE
2-NITRONAPHTHO(2,1-b)FURAN
1-(2-NITRONAPHTHO(2,1-b)FURAN-7-YL)ETHANONE
3-NITRO-1-NITROSO-1-PROPYLGUANIDINE
3-NITROPERYLENE
1-NITROPHENANTHRENE
2-NITROPHENANTHRENE
3-NITROPHENANTHRENE
O-NITROPHENETOLE
P-NITROPHENETOLE
3-NITROPHENOL
4-NITROPHENOL
(o-NITROPHENYL)ACETIC ACID
(p-NITROPHENYL)ACETIC ACID
2-(4-NITROPHENYL)ADENOSINE
P-NITROPHENYLDIETHYLPHOSPHATE
4-NITRO-m-PHENYLENEDIAMINE
4-(2-(4-NITROPHENYL)ETHENYL)BENZENAMINE
P-NITROPHENYLETHER
P-NITROPHENYLGlyCIDYLTHER
p-NITROPHENYL-p'-GUANIDINOBENZOATE
2-NITROPHENYLHYDRAZINE
P-NITROPHENYLHYDRAZINE
3-(4-NITROPHENYL)OXIRANEMETHANOL trans-(+)-
3-(4-NITROPHENYL)OXIRANEMETHANOL trans-(−)-
P-NITROPHENYL PHENYLETHER
4-NITRO-5-(4-PHENYL-1-PIPERAZINYL)BENZOFURAZAN OXIDE
p-NITROPHENYL-2,4,6-TRICHLOROPHENYLETHER
p-NITROPHENYL-a,a,a-TRIFLUORO-2-NITRO-p-TOLYL ETHER
4-NITROPHTHALIMIDE
1-NITROPROPANE
2-NITROPROPANE
3-NITROPROPIONIC ACID
3-NITROPYRENE
4-NITROPYRENE
4-NITROPYRIDINE-N-OXIDE
5-NITROQUINOLINE
6-NITROQUINOLINE
8-NITROQUINOLINE
4-NITROQUINOLINE-N-OXIDE
N-NITROSARCOSINE
NITROSATED COAL DUST EXTRACT
NITROSO-4-ACETYL-3,5-DIMETHYLPIPERAZINE
NITROSOALDICARB
NITROSOALLYLUREA
1-NITROSOAZACYCLOTRIDECANE
1-NITROSOAZETIDINE
1-NITROSO-4-BENZOYL-3,5-DIMETHYLPIPERAZINE
NITROSOBENZYLUREA
3-NITROSOBIPHENYL
4-NITROSOBIPHENYL
N-NITROSObis(2-ACETOXYPROPYL)AMINE
N-NITROSObis(2-OXOPROPYL)AMINE
N-NITROSO-Bis-(4,4,4-TRIFLUORO-n-BUTYL)AMINE
NITROSOBROMOETHYLUREA
N-NITROSObUTYLAMINE
N-NITROSO-N-(BUTYL-N-BUTYROLACTONE)AMINE
N-NITROSO-4-tert-BUTYLPIPERIDINE
NITROSO-sec-BUTYLUREA
N-NITROSOCARBANILIC ACID ISOPROPYLESTER
NITROSOCARBOFURAN
NITROSCIMETIDINE
NITROSO-dl-CITRULLINE
NITROSO-1-CITRULLINE
4-(NITROSOCYANAMIDO)BUTYRAMIDE
5-(NITROSOCYANAMIDO)-2-HYDROXYVALERAMIDE
NITROSOCYCLOHEXYLUREA
N-NITROSODIALLYLAMINE
N-NITROSODIBENZYLAMINE
P-NITROSODIETHYLANILINE
L-NITROSO-1,3-DIETHYLUREA
1 -NITROSO-5,6-DIHYDROTHYMINE
1-NITROSO-5,6-DIHYDROURACIL
N-NITROSO-2,3-DIHYDROXYPROPYLALLYLAMINE
NITROSODIMETHOATE
N-NITROSODIMETHYLAMINE
cis-NITROSO-2,6-DIMETHYLMORPHOLINE
trans-NITROSO-2,6-DIMETHYLMORPHOLINE
1-NITROSO-3,5-DIMETHYLPiperazine
P-NITROSODIPHENYLAMINE
N-NITROSODI-N-PROPYLAMINE
N-NITROSOEPHEDRINE
N-NITROSO-3,4-EPOXYPiperidine N NITROSO
N-NITROSO-3-HYDROXYETHYLUREA
N-NITROSODIPHENYLAMINE
1-NITROSO-1-ETHYL-3-METHYLUREA
1 -NITROSO-1 -ETHYL-3-(2-OXOPROPYL)UREA
N-NITROSO-3-METHYLMORPHOLINE
2-NITROSOFLUORENE
NITROSOFLUOROETHYLUREA
NITROSOGUVACOLINE
N-NITROSOHEXAHYDROAZEPINE
NITROSO HYDANTOIC ACID
1-NITROSOHYDANTOIN
N-NITROSO-1-HYDROXYETHYL-3-CHLOROETHYLUREA
1-NITROSO-1-HYDROXYPROPYL-3-CHLOROETHYLUREA
NITROSO-3-HYDROXYPROPYLUREA NITROSO
N-NITROSOIMIDAZOLIDINETHIONE
1-NITROSOIMIDAZOLIDINONE
1,1'-(NITROSOIMINO)BIS-2-BUTANONE
NITROSOIMINO DIETHANOL
N-NITROSO-2,2'-IMINODIETHANOLDIACETATE
N-NITROSOISOBUTYLTHIAZOLIDINE
N-NITROSOISONIPECTOIC ACID
NITROSOISOPROPANOLUREA
NITROSOISOPROPYLUREA
N-NITROSO-2-METHOXY-2,6-DIMETHYLMORPHOLINE
1-NITROSMETHOXYETHYLUREA
N-NITROSO-N-METHYL-N-a-ACETOXYBENZYLAMINE
2-NITROSMETHYLAMINOPYRIDINE
N-NITROSO-N-(3-METHYLbensyL)METHYLAMINE
N-NITROSO-N-(4-METHYLbensyL)METHYLAMINE
N-NITROSO-N-METHYLCYCLOHEXYLAMINE
NITROSMETHYL-N-DODECYLAMINE
N-NITROSMETHYLETHANOLAMINE
1-NITROSO-1-METHYL-3-ETHYLUREA
NITROSMETHYL-N-HEXYLAMINE
N-NITROSMETHYL-(2-HYDROXYPROPYL)AMINE
NITROSO-2-METHYLMORPHOLINE
NITROSO-N-METHYL-n-NONYLAMINE
NITROSO-N-METHYL-n-OCTYLAMINE
NITROSO-2-METHYL-1,3-OXAZOLIDINE
NITROSO-5-METHYLOXAZOLIDONE
N-NITROSMETHYL-2-OXOPROPYLAMINE
N-NITROSO-N-METHYL-N-OXOPROPYLAMINE
NITROSMETHYLPHENYLCARbamate
1-NITROSO-4-METHYLPIPERAZINE NITROSO
N-NITROSO-N-METHYL-n-TETRADECYLAMINE
NITROSO-2-METHYLTHIOPROPIALDEHYDE-o-METHYL CARBAMOYL-OXIME
NITROSMETHYL-2-TRIFLUOROETHYLAMINE
NITROSMETHYLUNDECYLAMINE
N-NITROSMETHYLVINYLAMINE
NITROSMETOXURON
4-NITROMORPHOLINE
1-NITROSONAPHTHALENE
2-NITROSONAPHTHALENE
1-NITROSO-2-NAPHTHOL
1-NITROSO-3-NITRO-1-BUTYL GUANIDINE
1-NITROSO-3-NITRO-1-PENTYL GUANIDINE
N-NITROSO-N-p-NITROPHENYL-d-RIBOSYLAMINE
3-NITROSO-1-NITRO-1-PROPYL GUANIDINE
N'-NITROSOISONICOTINE
N-NITROSOOXAZOLIDINE
1-NITROSO-1-OXOPROPYL-3-CHLOROETHYLUREA
N-NITROSO-N-PENTYL-(4-HYDROXYBUTYL)AMINE
2-NITROSOPHENANTHRENE
NITROSOPHENOL
NITROSOPHENYLETHYLUREA
NITROSOPHENYLUREA
1-NITROSOPIPECOACID
1-NITROSO-2-PIPECOLENE
N-NITROSOPIPERIDINE
NITROSO-3-PIPERIDINOL
NITROSO-4-PIPERIDINOL
NITROSO-4-PIPERIDONE
N-NITROSO-N-PROPYLACETAMIDE
1-(NITROSOPROPYLAMINO)-2-PROPANOL
N-NITROSO-N-PROPYL-(4-HYDROXYBUTYL)AMINE
N-NITROSO-N-PROPYLUREA
1-NITROSOPYRENE
NITROSOPYRROLIDINE
N-NITROSOPYRROLIDINE
1-NITROSO-3-PYRROLIDINOL
N-NITROSO-3-PYRROLINE
4-NITROSOQUINOLINE-1-OXIDE
5-NITROSO-8-OXINOLOL
N-NITROSOSARCOSINE
4-NITROSO-trans-STILBENE
N-NITROSO-TETRAHYDRO-1,3-OXAZINE
N-NITROSO TETRAHYDRO
N-NITROSO-1,2,3,4-TETRAHYDROPYRIDINE
N-NITROSO-3,4,5-TRIMETHYLPIPERIDINE
N-NITROSO-3,4,5-TRIMETHYLPIPERIDINE
N-NITROSOTHIAZOLIDINE
N-NITROSOTHIOMORPHOLINE
2-NITROSOTOLUENE
NITROSOTRIDECEYLUREA
NITROSOTRIETHYLUREA
N-NITROSO-2,2,2-TRIFLUORODIETHYLAMINE
NITROSOTRIMETHYLPHENYL-N-METHYLCARBAMATE
NITROSO-3,4,5-TRIMETHYLPIPERAZINE
NITROSOUNDECYLUREA
4-NITROSTILBENE
NITROTHIAZOLE
1-(5-NITRO-2-THIENYL)ETHANONE
2-NITROTHIOPHENEN
O-NITROTOLUENE
P-NITROTOLUENE
4-NITRO-o-TOLUENEDIAMONIUMTETRAFLUOROBORATE
5-NITRO-4-TOLUIDINE
5-NITRO-o-TOLUIDINE
NITROUS ACID
NITRO-P-XYLENE
NMDHP
NOGALAMYCIN
1-NONANAL
2-NONENAL
NONOXYNOL-9
I-NOREPINEPHRINE
I-NOREPINEPHRINE BITARTRATE
19-NORETHISTERONE
NORHARMAN
NORPHENAZONE
19-NORSPIROXENONE
NOSCAPINE
NOVADEX
NOVOBIOCIN, MONOSODIUMSALT
NTPA
NUPERCAINE HYDROCHLORIDE
NUTMEG OIL, EAST INDIAN
NYSTATIN
5,7,11,13-OCTADECATETRAYNE-I,I B-DIOL
1,1,1,2,3,4,4,4-OCTAFLUORO-2-BUTENE
OCTAHYDRO-1-NITROSOAZOCINE OCTAHYDRO
OCTAHYDRO-1-NITROSO-1 H-AZONINE
OCTYL ALCOHOL
1-OCTYNE
OFLOXACIN
OIL OF LIME, distilled
OIL OF MACE
OIL RED
OIL YELLOW DEA
OKADAIC ACID
OLEIC ACID
OLIVE OIL
OLIVOMYCIN
OLIVOMYCIN D
ONCODAZOLE
OPIUM, PYROLYZATE
ORAFLEX
ORNIDAZOLE
OROTIC ACID
ORYZALIN
OSMIUM TETROXIDE
OUABAIN
7-OXABICYCLO(4,i,i,O)HEPTA-2,4-DIENE 7 OXABICYCLO
OXAMNIQUE
OXANTIN
1,3,4-OXAZOL-2(3H)-ONE, 3-(2,4-DICHLORO-5-(1-METHYLETHOXY)PHENYL)-5-(1,1-Di
OXETANE
OXFENDAZOLE
OXIRANE CARBOXAMIDE (9Cl)
OXIRANE CARBOXYLIC ACID, 3-(((3-METHYL-I-(((3-METHYL-BUTYL)AMINO)CARBONYL
7-OXIRANYL-BENZ(a)ANTHRACENE
N-(4-(OXIRANYLMETHOXY)PHENYL)-N-(OXIRANYLMETHYL)OXIRANEMETHANAMINE
1-OXIRANYLPYRENE
6-OXO-trans, trans-2,4-HEXADIENOIC ACID
OXOLINIC ACID
N-(2-OXOPROPYL)-N-NITROSOUREA
4-OXO-4-(3-PYRIDYL)BUTANAL
OXYBIS(BENZENESULFONYL HYDRAZIDE)
OXYCARBOPHOS
4,4’-OXYDIANILINE
N-OXYDIETHYLENE THIOCARBAMYL-
OXYGEN
5-OXYMETHYLFURFUROLE
B-OXYPROPYLPROPYNITROSAMINE
OXYTHIOQUINOX
OZONE
PACTAMYCIN
PALLADIUM(2+)CHLORIDE
PANAZONE
PANCURONIUM BROMIDE
PAPAVERINE
PAPAVERINE CHLOROHYDRATE
PARAFORMALDEHYDE
PARAQUAT
PARAQUAT DICHLORIDE
PARATHION
PARAXANTHINE
PARTHENICIN
PASPALIN
PEANUT OIL
PENBUTOLOL
PENBUTOLOL SULFATE
PENCILLIC ACID
PENTABROMO(2-PROPENYLOXY)BENZENE
PENTACHLOROACETONE
1,2,3,4,5-PENTACHLOROCYCLOPENTADIENE
PENTACHLOROETHANE
PENTACHLORONITROBENZENE
PENTACHLOROPHENOL
a-a-a-2,4-PENTACHLOROTOLUENE
PENTAERYTHRITOL GLYCIDYL ETHER
PENTAERYTHRITOLTETRANITRATE
1,1,1,2,2-PENTAFLUOROETHANE
PENTAFLUOROPHENYL CHLORIDE
PENTAMETHYLENE DIIODIDE
2-PENTENAL
PENTOSTATIN
PENTOTHAL
PENTOXYPHYLLINE
PENTYL CANNABICHROMENE
N-PENTYL NITROSOUREA
m-(3-PENTYL)PHENYL-N-METHYL-N-NITROSOCARBAMATE
PEPPERMINT OIL
PEPTICHEMIO
PERCHLORIC ACID, SODIUM SALT
PERCHLOROETHYLENE
PERFLUOROHEPTANE CARBOXYLIC ACID
PERHEXILINE MALEATE
PERIACTIN HYDROCHLORIDE
PEROXYACETYL NITRATE
PEROXYLINOLENIC ACID
PERSANTIN
PERYLENE
PETASITENINE
PETROLEUM
PHALLOIDIN
PHENACID
PHENANTHRENE
9,10-PHENANTHRENE OXIDE
PHENANTHRENEQUINONE
PHENANTHRENE, 1,6,9-TRINITRO-
6-PHENANTHRIDINE
1,10-PHENANTHROLINE
N-2-PHENANTHRYLACETOHYDROXAMIC ACID
2-PHENANTHRYLAMINE
3-PHENANTHRYLAMINE
9-PHENANTHRYLAMINE
1-PHENAZINAMINE (9CI)
PHENAZIN-5-OXIDE
PHENAZOPYRIDINIUM CHLORIDE
PHENETHYL ALCOHOL
A-PHENETHYLALCOHOL
2-PHENETHYLGLUCOSINOLATE
N-(p-PHENETHYL)PHENYLACETOHYDROXAMIC ACID
PHENETIDINE
M-PHENETIDINE
PHENOL
PHENOLPHTHALEIN
PHENOLSULFONPHTHALEIN
3-PHENOXYBENZYL D-Z/E CHRYSANTHEMATE
PHENOXYMETHYL PENICILLIN
d-a-PHENOXYMETHYL PENICILLINATE K SALT
2'-PHENYLACETANILIDE
4'-PHENYLACETANILIDE
L-PHENYLALANINE
L-PHENYLALANINEMUSTARD
O-PHENYLANISOLE
p-(PHENYLACZO)ANILINE
1-(PHENYLACZO)-2-NAPHTHOL
4-PHENYLACZO-1-NAPHTHYLAMINE
4-PHENYLACZO-m-PHENYLENEDIAMINE
PHENYL-P-BENZOQUINONE
PHENYLCELOSOLVE
2-PHENYLCHROMONE
trans-2-PHENYL CYCLOPROPYLAMINE
PHENYL DIAZOMETHYL KETONE
1. 1-PHENYL-3,3-DIETHYLTRIAZENE
2. 4,4'-o-PHENYLENEBIS(3-THIOALLOPHANIC ACID) DIMETHYL ESTER
3. 1,1'- (p-PHENYLENEBIS(VINYLENE)-p-PHENYLENE))BIS(PYRIDINIUM) Di-p-TOLUENESU
4. M-PHENYLENEDIAMINE
5. O-PHENYLENEDIAMINE
6. P-PHENYLENEDIAMINE
7. o-PHENYLENEDIAMINEDIHYDROCHLORIDE
8. P-PHENYLENEDIAMINE DIHYDROCHLORIDE
9. M-PHENYLENEDIAMINE HYDROCHLORIDE
10. P-PHENYLENEDIAMINESULFONIC ACID
11. N,N'-(p-PHENYLENEDIETHYL)BIS(2,2-DICHLORO-N-ETHYLACETAMIDE)
12. 2-PHENYLETHYLHYDRAZINE
13. b PHENYLETHYLHYDRAZINE SULFATE
14. (2R,3R)-3-PHENYLGLYCIDOL
15. PHENYL GLYCIDYL ETHER
16. PHENYLHYDRAZINE
17. PHENYLHYDRAZINE HYDROCHLORIDE
18. B-PHENYLHYDROXYLAMINE
19. PHENYL ISOCYANATE
20. PHENYL MercURIC CHLORIDE
21. PHENYL MercURIC HYDROXIDE
22. N-PHENYL-1-NAPHTHYLAMINE
23. N-PHENYL-1-(3,4-XYLYL)-2-PROPYNYL N-CYCLOHEXYLCARBAMATE
24. PHLEOMYCIN
25. PHLEOMYCIN COMPLEX
26. PHOLOGLUCINOL
27. PHOMOPSIN
28. PHORATE
29. PHORBOL-12,13-DIDECANOATE
30. PHORBOL MYRISTATE ACETATE
31. PHOSPHINE
32. PHOSPHONACETYL-1-ASPARTIC ACID
33. PHOSPHONOMYCIN
34. 9-(2-PHOSPHONYLMETHOXYETHYL)ADENINE
35. PHOSPHORAMIDE MUSTARD CYCLOHEXYLAMINE SALT
36. PHOSPHORIC ACID, DIPHENYL ESTER
37. PHOSPHORODITHIOIC ACID, O,O-DIMETHYL-S-(2-ETHYLTHIO)ETHYL ESTER
38. PHOSPHOROUS ACID, TRIS(2-CHLOROETHYL) ESTER
39. O-PHOSPHORYL-5-HYDROXY-N,N-DIMETHYLTRYPTAMINE
40. PHOTODIELDRIN
41. 1(2H) PHTHALAZINONE
42. PHTHALIMIDOMETHYL-O,O-DIMETHYL PHOSPHORODITHIOATE
PHYTOHEMAGGLUTININ
PICLORAM
2-PICOLYL CHLORIDE HYDROCHLORIDE
PICRIC ACID
PICROLONIC ACID
PICRYL CHLORIDE
4,4’-(PIMELOYLBIS(IMINO-p-PHENYLENEIMINO))BIS(I-ETHYL PYRIDINIUM) DIPERCHL
4,4’-(PIMELOYLBIS(IMINO-p-PHENYLENEIMINO))BIS(I-METHYL PYRIDINIUM) DIBROMI
PIMENTA OIL
PIODEL
PIPERAZINE DIANTIMONY TARTRATE
PIPERAZINE DIHYDROCHLORIDE
2,6-PIPERAZINEDIONE-4,4’-PROPYLENEDIOXOPIPERAZINE
PIPERIDINE
PIPERONAL
PIPERONYL BUTOXIDE
PIPRAM
PITUITARY GROWTH HORMONE
cis-PLATINOUS DIAMMINE DICHLORIDE
PLATINOUS POTASSIUM CHLORIDE
PLATINUM(II) AMMINE TRICHLOROPOTASSIUM
PLATINUM CHLORIDE
PLATINUM(IV) CHLORIDE
PLATINUM(II) SULFATE
PLATINUM THYMINE BLUE
PLUMBAGIN
PODOPHYLLOTOXIN
POLYADENYLATE-POLYURIDYLTATE
POLYCHLORINATED BIPHENYL (AROCLOR 1242)
POLYCHLORINATED BIPHENYL (AROCLOR 1254)
POLYCHLORINATED BIPHENYL (AROCLOR 1260)
POLYCHLORO COPPER PHTHALOCYANINE
POLYDIMETHYL SILOXANE
POLY-P-DINITROSOBENZENE
POLYETHYLENE GLYCOL
POLYETHYLENE GLYCOL 6000
POLYINOSINIC:POLYCYTIDYLIC ACID COPOLYMER
POLYMXYN B SULFATE
POLYMXYN E
POLY(l-(2-OXO-l-PYRROLIDINYL)ETHYLENE)IODINE COMPLEX POLY
POLY(OXYETHYLENE)-p-tert-OCTYLPHENYL ETHER
POLY(OXYETHYLENOXYTEREPHTHALOYL)
POLYPROPYLENE GLYCOL, (CHLOROMETHYL)OXIRANE
POLYSORBATE 80
POTASSIUM ALUMINUM SULFATE
POTASSIUM ARSENITE
POTASSIUM BICHROMATE
POTASSIUM BROMATE
POTASSIUM BROMIDE
POTASSIUM CANRENOATE
POTASSIUM CHLORIDE
POTASSIUM CHLOROPALLADATE
POTASSIUM CHROMATE(VI)
POTASSIUM CHROMIC SULFATE
POTASSIUM CYANIDE
POTASSIUM DIOXIDE
POTASSIUM FERRICYANATE
POTASSIUM HYDROXIDE
POTASSIUM IODIDE
POTASSIUM NITRATE
POTASSIUM PALLADIUM CHLORIDE
POTASSIUM PERMANGANATE
POTASSIUM PLATINIC CHLORIDE
POTASSIUM PYROSULFITE
POTASSIUM SELENATE
POTASSIUM SORBATE
POTASSIUM ZINC CHROMATE HYDROXIDE
PRENISONE
PREDONIN
PRIMAQUINE
PRIMAQUINE PHOSPHATE
PROCARBAZINE
PROCARBAZINE HYDROCHLORIDE
PROCLONOL
PROCYAZINE
PROCYAZINE
PROFLAVINE HEMISULPHATE
PROFLAVINEMONOHYDROCHLORIDE
PROGESTERONE
PROLACTIN
PROPANEDIAL
1,2-PROPANEDIOL
1,3-PROPANEDIOL
PROPANE SULTONE
PROPARGYL ALCOHOL
trans-p-PROPENYLANISOLE
PROPENYL CHLORIDE
2-PROPENYLPHENOL
PROPIDIUM DIIODIDE
B-PROPIOLACTONE
PROPIOLALDEHYDE
PROPIONALDEHYDE
PROPIONIC ACID
10-PROPIONYLTHIRANOL
PROPOXUR
PROPOXUR NITROSO
dl-PROPRANOLOL
N-PROPYLALCOHOL
p-n-PROPYL ANISOLE
N-PROPYL-BIS(2-CHLOROETHYL)AMINE HYDROCHLORIDE
S-PROPYLBUTYLENETHIOLCARBAMATE
N-PROPYL-N-BUTYLNITROSAMINE
PROPYL CARBAMATE
N-PROPYL-(3-CARBOXYPROPYL)NITROSAMINE
S-PROPYL CHLOROTHIOFORMATE
PROPYL-N,N-DIPROPYLTHIOLCARBAMATE
PROPYLENE DICHLORIDE
PROPYLENE IMINE
PROPYLENENITROSOUREA
PROPYLENE OXIDE
PROPYLENOXIDE,(R)-(+)-
N-PROPYL GALLATE
PROPYLDENE PHTHALIDE
N-PROPYL METHANESULFONATE
PROPYL NITRITE
PROPYNITROSAMINOMETHYL ACETATE
(I-PROPYL-6-(p-(p-((I-PROPYLQUINOLINIUM-6-YL)CARBAMOYL)BENZAMIDO)BENZA
6-PROPYL-2-THIOURACIL
PROSPIDIN
PROSTAGLANDIN AI
PROSTAGLANDIN D2
PROSTAGLANDIN EI
PROSTAGLANDIN Fl-a
PROSTAGLANDIN F2-a
PROTOCATECHUIC ACID
PR TOXIN
PSEUDOMONAS AERUGINOSA ENDOTOXIN
PSEUDOMONAS PSEUDOMALLEI EXOTOXIN
PTAQUILOSIDE
PURINE
9H-PU,RINE-9-BUTANOIC ACID, 6-AMINO-a-b-DIHYDROXY-, (R-(R@,R'))- (9CI)
1H-PURINE-2,6-DIAMINE
PURINE-6-THIOL
PUTRESCINE DIHYDROCHLORIDE
PYRANTEL PAMOATE
PYRAZINE
PYRAZINECARBOXAMIDE
PYRAZOLOADENINE
1-PYRENAMINE
PYRENE
1,6-PYRENEDIONE
1,8-PYRENEDIONE
4-PYRENYLOXIRANE
PYRIBENZAMINE HYDROCHLORIDE
PYRIDINE-1-OXIDE
PYRIDINIUM, 3,3'-(2-AMINOTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYLIMI
PYRIDINIUM, 3,3'-(BICYCLO(2.2.2)OCTANE-1,4-DIYLBIS(CARBONYLIMINO-4,l-PHENYL
PYRIDINIUM, 1-BUTYL-3-(p-(p-((I-BUTYLPYRIDINIUM-3-YL)CARBAMOYL)PHENYL)C
PYRIDINIUM, 3,3'-(2-CHLOROTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYLI
PYRIDINIUM, 3,3'-(2-CHLOROTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYLI

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PYRIDINIUM, 1-ETHYL-3- p-((p-(l-ETHYLPHENYLAMINO)PHENYL)CARBAMYL)PHENYLOCA
PYRIDINIUM, 1-ETHYL-3-(p-(p-(l-ETHYLPHENYLAMINO)PHENYL)CARBAMOYL)CI
PYRIDINIUM, 3,3'-(2-METHOXYTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYL)
PYRIDINIUM, 3,3’-(2-METHOXYTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYL)
PYRIDINIUM, 3,3’-(2-METHOXYTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYL)
PYRIDINIUM, 3,3’-(2-METHOXYTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYL)
PYRIDINIUM, 1-METHYL-3-(p-(p-(l-METHYLPHENYLAMINO)PHENYL)CARBAMYL)CA
PYRIDINIUM, 1-METHYL-4-(p-(p-(l-METHYLPHENYLAMINO)PHENYL)CA
PYRIDINIUM, 1-METHYL-3-(p-((p-(l-METHYLPHENYLAMINO)PHENYL)CARBAMOYL)1,4-NAP
PYRIDINIUM, 1-METHYL-3-(m-((p-(l-METHYLPHENYLAMINO)PHENYL)CARBAMOYL)PHEN
PYRIDINIUM, 1-METHYL-3-(p-((p-(l-METHYLPHENYLAMINO)PHENYL)CARBAMOYL)
PYRIDINIUM, 1-METHYL-3-(p-((p-(l-METHYLPHENYLAMINO)PHENYL)CARBAMOYL)
PYRIDINIUM, 3,3’-(2-METHYLTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYL)
PYRIDINIUM, 3,3’-(2-METHYLTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYL)
PYRIDINIUM, 3,3’-(2-METHYLTEREPHTHALOYLBIS(IMINO-p-PHENYLENECARBONYL)
PYRIDINIUM, 3,3’-(1,4-NAPHTHYLENEBIS(CARBANYLIMINO-p-PHENYLENECARBONYL)
PYRIDINIUM, 4,4’-(p-PHENYLENEBIS(ACRYLOYLIMINO-p-PHENYLENEIMINO))BIS(l-ET
PYRIDINIUM, 1-PROPYL-3-(p-(p-(l-PROPYPYRIDINIUM-3-YL)CARBAMOYL)PHEN
PYRIDINIUM, 1-PROPYL-3-(p-(p-(l-PROPYPYRIDINIUM-3-YL)CARBAMOYL)PHEN
PYRIDINIUM, 4,4’-(SUBEROYLBIS(IMINO-p-PHENYLENEIMINO))BIS(l-METHYL)-, DIBR
PYRIDINIUM, 3,3’-(TEREPHTHALOYLBIS(IMINO3-CHLORO-p-PHENYLENE)CARBONYL
PYRIDINIUM, 3,3’-(TEREPHTHALOYLBIS(IMINO3-METHOXY-p-PHENYLENE)CARBONYL
PYRIDINIUM, 3,3’-(TEREPHTHALOYLBIS(IMINO3-METHOXY-p-PHENYLENE)CARBONYL
PYRIDINIUM, 3,3’-(TEREPHTHALOYLBIS(IMINO3-METHOXY-p-PHENYLENE)CARBONYL
PYRIDINOL NITROSOCARBAMATE PYRIDINOL NITROSOCARBAMATE
PYRIDINYLETHANONE
PYRIDIYLMIME
N-(5H-PYRIDO(4,3-b)INDOL-3-YL)ACETAMIDE
PYRIDOXOL HYDROCHLORIDE
1-(Pyridyl-3)-3,3-DIMETHYL TRIAZENE
5-(p-(2-PYRIDYL-SULFAMOYL)PHENYLACETOXY)-SALICYLIC ACID
N-(2-PYRIDYLSULFANILAMIDE
PYRIMIDINE
4,6-PYRIMIDINEDIOL
2(IH)-PYRIMIDINONE,4-AMINO-1-(2-DEOXY-2,2-DIFLUORO-D-ERYTHROPENTOFURA
PYRITIDIUM BROMIDE
PYROGALLOL
PYROGEN
PYRONARIDINE
PYRONIN YELLOW
PYRROLE
PYRROLIDINE
2-PYRROLIDINONE
2-PYRROLIDINONE, 1-(3-(DIMETHYLAMINO)PROPYL)-3-(l-METHYL-5-NITRO-IH-IMID
7-(((2-PYRROLYL)METHYLAMINO)-ACTINOMYCIN D
PYRUVALDEHYDE
PYRVINIUM-4,4’-METHYLENEBIS(3-HYDROXYPHTHALALENE-2-CARBOXYLATE)
QUERCETIN
QUERCETIN DIHYDRATE
QUERCITIN
QUINACRINE MUSTARD
QUINACRINE MUSTARD DIHYDROCHLORIDE
QUINALDIC ACID
QUINALDINE
QUININE
QUININE DIHYDROCHLORIDE
QUININE HYDROCHLORIDE
QUININE SULFATE
QUINOLINE
2,4-QUINOLINEDIOI
trans-QUINOLINE-5,6,7,8-DIOXIDE
QUINOLINE-7,8-OXIDE QUINOLINE
QUINOLINIUM DIBROMIDE
8-QUINOLINOL
8-QUINOLINOLIUM-4',7'-DIBROMO-3'-HYDROXY-2'-NAPHTHOATE
S-QUINOLINOLIUM SULFATE (2:1) (SALT)
QUINONE
6-QUINOXALINAMINE, N,5-DIMETHYL-3-PHENYL-
6-QUINOXALINAMINE, N,N,2,3,5-PENTAMETHYL-
6-QUINOXALINAMINE, 2,3,5-TRIMETHYL-
QUINOXALINE
2,3-QUINOXALINEDIMETHANOL, DIACETATE
QUINOXALINE-1,4-DI-N-OXIDE QUINOXALINE
3-QUINUCLIDINOL
3-QUINUCLIDINOL BENZILATE
RABOND
RANKOTEX
RAZOXANE
RENEGADE
YOHIMBAN-16-CARBOXYLIC ACID derivative of BENZ(g)INDOLO(2,3-a)QUINOLIZINE Y RESIDUES (PETROLEUM), CATALYTIC REFORMER FRACTIONATOR
RESISAN
RESORCINOL
RESORCINOL DIGLYCIDYL ETHER
RESORCINOXYDIANILINE
RESTRICTION ENDODEOXYRIBONUCLEASE HINClI
RESTRICTION ENDODEOXYRIBONUCLEASE HINDIII
RESTRICTION ENDONUCLEASE MSEl
RESTRICTION ENDONUCLEASE RSAI
RETRORSINE
RFCNU
RHODAMINE 6G EXTRA BASE
RHODIUM(II) ACETATE
RHODIUM(III) CHLORIDE (1:3)
RHODIUM DIBUTYRATE
RHODIUM(II) PROPIONATE
RHODIUM TRICHLORIDE TRIHYDRATE
RIBOFLAVINE
2-b-d-RIBOFURANOSYL-as-TRIAZINE-3,5(2H,4H)-DIONE
1-b-d-RIBOFURANOSYL-1,2,4-TRIAZOLE-3-CARBOXAMIDE
RIBOXAMIDE
RICIN
RIDDELLINE
RIFAMYCIN AMP
RIFAMYCIN SV
RIPCORD
RITALIN HYDROCHLORIDE
ROBINETIN
RONNEL
P-ROSANILINE HYDROCHLORIDE
ROTENONE
RPCNU
RUBBER,NATURAL
RUBIDAZONE
RUBIDAZONEMONOHYDROCHLORIDE
RUBIDIUM CHLORIDE
RUBIFLAVIN
RUBOMYCIN
RUBRATOXIN B
RUBRATOXINB,DIHYDRO-
RUGULOSIN
RUTA GRAVEOLENS, extract
RUTHENIUM CHLORIDE
RUTIN
SACCHAROSONIC ACID
SAFROL
SAFROTIN
SAGE OIL, DALMATIAN TYPE
SAIKOSIDE, CRUDE
SALICYLIC ACID
SALICYLOHYDROXAMIC ACID
SANGIVAMYCIN
SANTOQUINE
m-l-SARCOLYSINE
SARKOMYCIN
SCARLET RED
SCHISTOSOMICIDE
SCOPOLAMINE
SELENIOSACIE)
SELENIOSACID,DIPOTASSIUMSALT(9CI)
SELENIUM CYSTINE
SELENIUM(IV)DIOXIDE(1:2)
SELENIUM(IV)DISULFIDE(1:2)
SELENIUM MONOSULFIDE
SELENOMETHIONINE
SEMICARBAZIDE HYDROCHLORIDE
SENECiphylline
I-SERINE
dl-SERINE2-(213,4-TRIHYDROXYBENZYL)HYDRAZINEHYDROCHLORIDE
SERUM GONADOTROPIN
SHIKIMIC ACID
SILICA, AMORPHOUS FUMED
SILICA, CRYSTALLINE-TRIDYMITE
SILICA, GEL and AMORPHOUS-PRECIPITATED
SILVER(L) NITRATE (1:1)
SILYBIN DISODIUM HEMISUCCINATE
SMOKE CONDENSATE, cigarette
SODIUM ACETATE
SODIUM ACID SULFATE (solid)
SODIUM AMIDOTRIZOATE
SODIUM P-AMINOSALICYLATE
SODIUM AMINOTRIACETATE
SODIUM ARSENITE
m-l-SARCOLYSINE
SARKOMYCIN
SCARLET RED
SCHISTOSOMICIDE
SCOPOLAMINE
SELENIOUS ACIDE
SELENIUSACID,DIPOTASSIUMSALT(9CI)
SELENIUM CYSTINE
SELENIUM(IV)DIOXIDE(1:2)
SELENIUM(IV)DISULFIDE(1:2)
SELENIUM MONOSULFIDE
SELENOMETHIONINE
SEMICARBAZIDE HYDROCHLORIDE
SENECIPHPHYLINE
I-SERINE
dl-SERINE2-(213,4-TRIHYDROXYBENZYL)HYDRAZINEHYDROCHLORIDE
SERUM GONADOTROPIN
SHIKIMIC ACID
SILICA, AMORPHOUS FUMED
SILICA, CRYSTALLINE-TRIDYMITE
SILICA, GEL and AMORPHOUS-PRECIPITATED
SILVER(L) NITRATE (1:1)
SILYBIN DISODIUM HEMISUCCINATE
SMOKE CONDENSATE, cigarette
SODIUM ACETATE
SODIUM ACID SULFATE (solid)
SODIUM AMIDOTRIZOATE
SODIUM P-AMINOSALICYLATE
SODIUM AMINOTRIACETATE
SODIUM ARSENITE
SODIUM AZIDE
SODIUM BENZOATE
SODIUM BICARBONATE
SODIUM BISMUTHATE
SODIUM BISULFITE SODIUM
SODIUM BORATE DECAHYDRATE
SODIUM BUTYRATE
SODIUM CEPHALOTHIN
SODIUM CHLORATE
SODIUM CHLORIDE
SODIUM CHLORITE
SODIUM 5-(2-CHLORO-4-(TRIFLUOROMETHYL)PHENOXY)-2-NITROBENZOATE
SODIUM CYCLAMATE
SODIUM DECANOATE
SODIUM DEHYDROACETIC ACID
SODIUM DESOXYCHOLATE
SODIUM-1,2:5,6-DIBENZANTHRACENE-9,10-endo-a,b-SUCCINATE
SODIUM DICHLOROACETATE
SODIUM-2,4-DICHLOROPHENOXYACETATE
SODIUM DICROMATE
SODIUM DICROMATE DIHYDRATE
SODIUM DIETHYLDIITHIOCARBAMATE
SODIUM-4-(2,4-DINITROANILINO)DIPHENYLAMINE-2-SULFONATE
SODIUM DIPHENYLDIAZO-BIS(a-NAPHTHYLAMINESULFONATE)
SODIUM FLUOALUMINATE
SODIUM HYDROSULFIDE
SODIUM P-HYDROXYMERCURIBENZOATE
SODIUM HYPOCHLORITE
SODIUM LAURYL SULFATE
SODIUM LUMINAL
SODIUM METABISULFITE
SODIUM MONOIODOACETATE
SODIUM MYCOPHENOLATE
SODIUM MYRISTATE
SODIUM NITRATE (1:1)
SODIUM NITRILOTRIACETATE
SODIUM NITRITE
SODIUM NITRITE mixed with CHLORDIAZEPOXIDE (1:1)
SODIUM M-NITROBENZENEAZOSALICYLATE
SODIUM N-OCTANOATE
SODIUM ORTHOVANADATE
SODIUM PALMITATE
SODIUM PENTACHLOROPHENATE
SODIUM PERBORATE
SODIUM PHOSPHATE HYPOCHLORITE
SODIUM PHOSPHATE, TRIBASIC
SODIUM SACCHARIN
SODIUM SALICYLATE
SODIUM SELENIDE
SODIUM SELFNITE
SODIUM SULFITE (2:1)
SODIUM TELLURITE
SODIUM TUNGSTATE
SODIUM TUNGSTATE, DIHYDRATE
SODIUM VANADATE
SOLANINE
SOMAN
SORBALDEHYDE
SORBIC ACID
SORBITAN MONOOLEATE
SORBITOL
SPARSOMYCIN
SPEARMINT OIL
SPERMIDINE
SPIRAMYCIN
SPIROMUSTINE
SPIROPLATIN
SRC-11,HEAVYDISTILLATE
STALLIMYCIN
STEARIC ACID
STEARIC ACID-2,3-EPOXYPROPYL ESTER STEARIC ACID
STERIGMATOCYSTIN
4-STILBENAMINE
4,4’-STILBENEDIAMINE
4,4’-STILBENEDICARBOXAMIDINE
STREPTOLYDIGIN
STREPTOMYCIN
STREPTOMYCIN SESQUISULFATE
STREPTONIGRAN
STREPTONIVICIN
STREPTOZOTICIN
STRONTIUM CHLORIDE
STRONTIUMCHROMATE(1:1)
STS 557
STYRENE
trans-4’-STYRYLACETANILIDE
N-(p-STYRYLPHENYL)ACETOHYDROXYAMIC ACID
trans-N-(p-STYRYLPHENYL)ACETOHYDROXYAMIC ACID
SUCCINIC ACID
SUCCINIC ANHYDRIDE
SUCROSE
SUKHTEH
SULFADIAZINE SILVER SALT
SULFANILAMIDE
5-SULFANILAMIDO-3,4-DIMETHYL-ISOXAZOLE
M-SULFANILIC ACID
O-SULFANILICACID
N-SULFANILYLACETAMIDE,SODIUMSALT
N-SULFANYLACETAMIDE
4,4’-SULFONYLDIANILINE
SULFOTEP
SULFUR DIOXIDE
SUPERPHOSPHATE
SUPERPREDNOL
M-SYNEPHRINE HYDROCHLORIDE
SYNSAC
SYNTARPEN
SYRINGIC ACID
2,4,5-T
TAGAMET
TALISOMYCIN SIOb
(TALLOW)TRIMETHYLAMMONIUMCHLORIDE
TALLYSOMYCIN A
TALLYSOMYCIN B
TAMOXIFEN CITRATE
TANNIC ACID
TAURINE
2,4,5-T BUTOXYETHANOL ESTER
TCDD
TELDRIN
TELLURIUM CHLORIDE
TELOCIDIN B
TEMAFLOXACIN
TERBIUM CHLORIDE
TEREPHTHALIC ACID
5 5'-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(2,4-DIAMINO-l-ETHYLPYRIMIDI
5,5'-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(2,4-DIAMINO-1-METHYLPYRIMI
5,5'-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(2,4-DIAMINO-1-PROPYLPYRIMI
3,3'-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(l-PROPYLPYRIDINIUM)-Di-p-TO
4,4'-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(l-PROPYLPYRIDINIUM)-Di-p-TO
B-TERPINEOL
TESTOSTERONE
TETANUS TOXIN
1,4,5,8-TETRAAMINO-9,10-ANTHRACENEDIONE
TETRAAMMINEPLATINUM DICHLORIDE
TETRACAINE HYDROCHLORIDE
TETRACHLOROACETONE
1,1,3,3-TETRACHLOROACETONE
3,3',4,4'-TETRACHLOROAZOBENZENE
3,3',4,4'-TETRACHLOROAZOXYBENZENE
2,2',5,5'-TETRACHLOROBIPHENYL
3,3',4,4'-TETRACHLOROBIPHENYL
1,2,3,4-TETRACHLOROBUTANE
1,2,3,4,5,6,7,8-TETRACHLOROCYCLOHEXANE
cis-TETRACHLORODIAMMINE PLATINUM(IV)
trans-TETRACHLORODIAMMINE PLATINUM(IV)
2,3,7,8-TETRACHLORODIBENZOFURAN
TETRACHLOROETHANE
1,1,1,2-TETRACHLOROETHANE
1, 1,2,2-TETRACHLOROETHANE
TETRACHLOROETHYLENE OXIDE
cis-N-((1,1,2,2-TETRACHLOROETHYL)THIO)-4-CYCLOHEXENE-1,2-DICARBOXYMIDEI...
TETRACHLOROHYDROQUINONE
TETRACHLOROISOPHTHALONITRILE
2,3,5,6-TETRACHLORONITROBENZENE
2,3,4,5-TETRACHLOROPHENOL
2,4,5,6-TETRACHLOROPHENOL
1, 1,2,3-TETRACHLOROPROPENE
TETRACYANONICKELATE(2-) DIPOTASSIUM, HYDRATE
TETRACYCLINE
TETRACYCLINE HYDROCHLORIDE
TETRAETHYLENE GLYCOL DIMETHACRYLATE
TETRAETHYLENEPENTAMINE
TETRAETHYL LEAD
3,3',5,5'-TETRAFLUOROBENZIDINE
3,5,3',5'-TETRAFLUORODIETHYLSTILBESTROL
TETRAHYDROAMINOCRINE
1-trans-D8-TETRAHYDROCANNABINOL
1-trans-D9-TETRAHYDROCANNABINOL
1A,2,3,11B-TETRAHYDROCHRYSENO(1,2-B)OXIRENE-2,3-DIOL(la-a-2-b,3-a-11ba)-
112,3,4-TETRAHYDRO-7,12-DIMETHYLBENZ(a)ANTHRACENE
4,5,9,10-TETRAHYDRO-2,7-DINITROPYRENE
TETRAHYDROFURAN
8,9,10,11-TETRAHYDRO-3-METHOXY-IH-INDOLE(3,2-C)QUINOLINE-1,4(7H)-DIONE
1,2,5,8-TETRAHYDROXYANTHRACINONE
1,4,5,8-TETRAHYDROXYANTHRACINONE
2,3,4,5-TETRAHYDROXY-5H-BENZOCYCLOHEPTENE-5-ONE
2,3,5,6-TETRAKIS(I-AZIRIDINYL)-1,4-BENZOQUINONE
N,N,N',N'-TETRAKIS(2-CHLOROETHYL)ETHYLENE DIAMINE DIHYDROCHLORIDE
TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM CHLORIDE
TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULFATE
3,6,11,14-TETRAMETHOXYDIBENZO(g,p)CHRYSENE
2,3,9,10-TETRAMETHYLANTHRACENE
3,3',5,5'-TETRAMETHYLBENZIDINE
TETRAMETHYLENE DIIODIDE
N,N,N',N'-TETRAMETHYL-P-PIPERIDINOPHOSPHONIC DIAMIDE
N,2,3,5-TETRAMETHYL-6-QUINO)(ALINAMINE
2,4,6,8-TETRAMETHYL-1,3,5,7-TETROXOCANE
TETRAMETHYLTIOUREA
1, 1,3,3-TETRAMETHYLUREA
TETRANDRINE
2,4,5,7-TETRANITROFLUORENONE
TETRANITROMETHANE
1,3,6,8-TETRANITRO NAPHTHALENE
1,3,6,8-TETRANITROPYRENE
TETRASODIUM FOSFESTROL
TETRYL
THALICARPINE
THALIDOMIDE
THALLIUM ACETATE
THALLIUM(L) CARBONATE (2:1)
THALLIUM CHLORIDE
THALLIUM NITRATE
N-(2-THENOYL)GLYCINOHYDROXAMIC ACID
THENLYPYRAMINE
THEOBROMINE
THEOPHYLLINE
1-(2-THIAZOLIDINYL)1,2,3,4,5-PENTANEPENTOL
2-(THIAZOL-4-YL)BENZIMIDAZOLE
2-(4-THIAZOLYL)-5-BENZIMIDAZOLECARBAMIC ACID METHYL ESTER
NI-2-THIAZOLYLSULFANILAMIDE
2-THIENYLALANINE
THIOACETAMIDE
THIOACETARSAMIDE
2-THIOCYTOSINE
4,4’-THIODIANILINE
THIOINOSINE
THIOPERAZINE
THIOSEMICARBAZIDE
THIOTRIETHYLENEPHOSPHORAMIDE
2-THIOURACIL
THIRAM
THORIUM CHLORIDE
I-THREITOL-1,4-BISMETHANESULFONATE
THROMBIN
THYME OIL
THYMIDINE
THYMINE
THYMOL
THYMOL, 6,6’-(3H-2,1-BENZOXATHIOL-3-YLIDENE)DI-, S,S-DIOXIDE
I-THYROXIN
THYROXINE
TIENILIC ACID
TIENILIC ACID
TIENILIC ACID
TILORONE HYDROCHLORIDE
TIN(II) CHLORIDE (1:2)
TIN(II) CHLORIDE DIHYDRATE (1:2:2)
TIN(IV) CHLORIDE, PENTAHYDRATE (1:4:5)
TINDURIN
TINIDAZOLE
TOBACCO
dl-a-TOCOPHERYL ACETATE
TODRALAZINE HYDROCHLORIDE HYDRATE
O-TOLIDINE
TOLUENE
TOLUENE-2,4-DIAMINE
TOLUENE-2,5-DIAMINE
TOLUENE-2,6-DIAMINE
P-TOLUENEDIAMINE SULFATE
P-TOLUENEDIAMINAZONIUM FLUOROBORATE
TOLUENE-1,3-DIISOCYANATE
TOLUENE-2,4-DIISOCYANATE
TOLUENE-2,6-DIISOCYANATE
O-TOLUENESULFONAMIDE
P-TOLUENESULFONAMIDE
O-TOLUIDINE
P-TOLUIDINE
O-TOLUIDINEHYDROCHLORIDE
1-(o-TOLYLazo)-2-NAPHTHOL
TOLYL GLICYDYL ETHER
0-TOLYLHYDROXYLAMINE
7-(4-(m-TOLYL)-1-PIPERAZINYL)-4-NITRO-BENZOFURAZAN-1-OXIDE
p-TOLYL SULFONYLMETHYL NITROSAMINE
1,3,5-TRIACRYLOYLHEXAHYDROTRIAZINE
1,3,5-TRIAMINOBENZENE
TRIAMINO GUANIDINE NITRATE
2,4,6-TRIAMINO-s-TRIAZINE compounded with S-TRIAZINE-TRIOL
TRIARIMOL
p,p'-TRIAZENYLEDIBENZENESULFONAMIDE
TRIAZINATE
1,3,5-TRIAZINE
s-TRIAZINE-3,5(2H,4H)-DIONE
s-TRIAZINE-1,3,5(2H,4H,6H)-TRIETHANOL
1,3,5-TRIAZINE-2,4,6(6H,3H,5H)-TRIONE,
1H-v-TRIAZOLO(4,5-d)PYRIMIDINE-5,7(4H,6H)-DIONE
TRIBUTYL PHOSPHATE
TRICHLOROACETIC ACID
TRICHLOROACETIC ACID SODIUM SALT
1,1,3-TRICHLOROACETONE
TRICHLOROACETONITRILE
2,3,3-TRICHLOROACROLEIN
TRICHLOROACRYLOYL CHLORIDE
2,4,6-TRICHLOROANILINE
1,2,3-TRICHLOROBENZENE
1,2,4-TRICHLOROBENZENE
1,3,5-TRICHLOROBENZENE
3,4,6-TRICHLOROCATECHOL
4,5,6-TRICHLOROGUAIACOL
2,2,3-TRICHLOROPROPIONALDEHYDE
1-122
1,3,5-TRICHLORO-2,4,6-TRINITROBENZENE
TRICLOSE
TRICYCLO(3.3.1.13,7)DECAN-1-AMINE
TRIDEMORPH
TRIETHOXONIUM FLUOROBORATE
TRIETHYLAMINE
TRIETHYLENE GLYCOL DIGLYCIDYL ETHER
TRIETHYLENETETRAMINE
TRIETHYL LEAD CHLORIDE
TRIETHYL PHOSPHATE
TRIETHYL Tin CHLORIDE
TRIFLUOROACETYLADRIAMYCIN-14-VALERATE
1,1,1-TRIFLUOROETHANE
2,2,2-TRIFLUORO-1,1 -ETHANEDIOL
TRIFLUOROETHANOIC ACID
2,2,2-TRIFLUOROETHYL VINYL ETHER
P-TRIFLUOROMETHYLANILINE
5-(TRIFLUOROMETHYL)-1,3-BENZENEDIAMINE
TRIFLUOROMETHYLPERAZINE
TRIFLUOROTHYMIDINE
N-(ala,a-TRIFLUORO-m-TOLYL)ANTHRANILIC ACID
TRIFLUPERAZINE DIHYDROCHLORIDE
TRIFLUPROMAZINE
1,2,3-TRIHYDROXYANTHRAQUINONE
1,2,4-TRIHYDROXYANTHRAQUINONE
2',4',5'-TRIHYDROXYBUTYROPHENONE
Z-(−)-4,6,8-TRIHYDROXY-3a,12a-DIHYDROANTHRA(2,3-b)FURO(3,2-d)FURAN-5,10-DIO
1,9,10-TRIHYDROXY-9,10-D]HYDRO-3-METHYLCHOLANTHRENE
4',5,7-TRIHYDROXY-6-METHOXYISOFLAVONE
TRIHYDROXYTRIETHYLAMINE
TRIISOPROPYL PHOSPHITE
TRILITHIUM CITRATE
5-(314,5-TRIMETHOXYBENZYL)-2,4-DIAMINOPYRIMIDINE
3,4,5-TRIMETHOXY-a-VINYLBENZYL ALCOHOL ACETATE
2,N,N-TRIMETHYL-4-AMINOAZOBENZENE
N,N,4-TRIMETHYLANILINE
2,4,5-TRIMETHYLANILINE
2,4,6-TRIMETHYLANILINE
2,9,10-TRIMETHYLANTHRACENE
TRIMETHYLARSINE OXIDE
7,9,10-TRIMETHYL BENZ(c)ACRIDINE
7,9,11-TRIMETHYL BENZ(c)ACRIDINE
7,8,12-TRIMETHYL BENZ(a)ANTHRACENE
TRIMETHYL-N-(p-BENZENESULPHONAMIDO)PHOSPHORIMIDATE
TRIMETHYL CHLOROSILANE
11,12-17-TRIMETHYL-15H-CYCLOPENTA(a)PHENANTHRENE
TRIMETHYLENE DIBROMIDE
TRIMETHYLENE DIODIDE
TRIMETHYLENEDIETHANESULFONATE
TRIMETHYLENENORBORNANE
TRIMETHYLENE SULFATE
2,3,9-TRIMETHYLFUORENE
TRIMETHYLIODOMETHANE
1,1,3-TRIMETHYL-3-NITROSOUREA
TRIMETHYLOLMELAMINE
TRIMETHYLOLPROPANE TRIACRYLATE
TRIMETHYLOLPROPANE TRIMETHACRYLATE
2,2,4-TRIMETHYLPENTANE
TRIMETHYL PHOSPHATE
N,2,5-TRIMETHYL-6-QUINOXALINAMINE
N,3,5-TRIMETHYL-6-QUINO(ALINAMINE
N-TRIMETHYLSILYLMETHYL-N-NITROSOUREA
1,1,3-TRIMETHYL-2-THIOUREA
TRIMETOSE
2,4,6-TRINITROANISOLE
1,3,5-TRINITROBENZENE
2,4,7-TRINITROFLUOREN-9-ONE
1,5,9-TRINITROPHENANTHRENE
1,7,9-TRINITROPHENANTHRENE
2,5,10-TRINITROPHENANTHRENE
2,6,9-TRINITROPHENANTHRENE
3,5,10-TRINITROPHENANTHRENE
3,6,9-TRINITROPHENANTHRENE
1,3,6-TRINITROPYRENE
1-(1,3,5-TRINITRO-1 H-PYRROL-2-YL)ETHANONE
2,4,5-TRINITROTOLUENE
2,4,6-TRINITROTOLUENE
S-TRIOXANE
TRIOXIFENE MESYLATE
TRIPELENNAMINE
TRIPHENYLENE
TRIPHENYLETHYLENE
TRIPHENYLELENOUM CHLORIDE
TRIPPERIDINOPHOSPHINE OXIDE
TRIS
TRIS(1-AZIRIDINYL)-p-BENZOQUINONE
TRIS-(1-AZIRIDINYL)PHOSPHINE OXIDE
TRISAZIRIDINYLTRIAZINE
TRIS(L-BROMO-3-CHLOROISOPROPYL)PHOSPHATE
TRIS(2-BROMOETHYL)PHOSPHATE
TRIS(2-CHLOROETHYL)AMINE
TRIS(2-CHLOROETHYL)AMMONIUM CHLORIDE
TRIS-DICHLOOROPropylPHOSPHATE
2,4,6-TRIS((1-(2-METHYLAZIRIDINYL))-1,3,5-TRIAZINE)
TRIS-(METHYLETHYLENE)PHOSPHORIC TRIAMIDE
TRISODIUM EDETATE
TRISODIUM ZINC DTPA
TRITHION
TROPHOSPHAMIDE
TRYPsin
I-TRYPTOPHAN
TRYPTOPHAN Pt
TUBERCIDIN
TUBOCURARINE HYDROCHLORIDE
TUMERIC
TYRAMINE MONOCHLORIDE
TYROTHRICIN
UNDECYLALCOHOL
URACIL
URANYL NITRATE (solid)
URANYL NITRATE HEXAHYDRATE
URBACIDE
UREA
UREA, POLYMER with FORMALDEHYDE
URETHANE
URIC ACID
UROCANIC ACID
UROCAUDAL
USNEIN
N-VALERALDEHYDE
4-VALEROLACTONE
VALINE
VANADIUM PENTOXIDE (dust)
VANADIUM TETRACHLORIDE
VANADYL SULFATE
VANILLIC ACID
VANILLIN
VASOTONIN
VENDESINE SULFATE
VENCIDE
VERATRDEF IC ACID
N-(o-VERATROYL)GLY CINOHYDROXAMIC ACID
VERSICOLORIN B
VIBRIO CHOLERAE EXOTOXIN
VICTORIA LAKE BLUE R
VINCALEUKOBlastINE
VINCALEUKOBlastINE SULFATE (1:1) (SALT)
VINTHIONINE
I-VINTHIONINE
VINYLACE@ATE
VINYL BROMIDE
VINYL CARBAMATE
VINYL CHLORIDE
VINYL CROTONATE
VINYL CYCLOHEXENE DIOXIDE
5-VINYL-DEOXYURIDINE
VINYL ETHER
VINYL-2-ETHYLHEXOATE
VINYL FLUORIDE
VINYL FORMATE
4-VINYLGUAIAIACOL
VINYLIDENE CHLORIDE
VINYLIDENE FLUORIDE
VINYL PROPIONATE
VINYL TOLUENE
2-VINYLTOLUENE
3-VINYLTOLUENE
4-VINYLTOLUENE
VIOLET BNP
VIRIDICATUMTOXIN
VITAMIN A
VITAMIN A ACETATE
VITAMIN A ACID
13-cis-VITAMIN A ACID
VITAMIN A ALDEHYDE
VITAMIN A PALMITATE
VITAMIN E
VOLIDAN
VOMITOXIN
WALNUT EXTRACT
WARFARIN SODIUM
WATER
WITCH HAZEL
XANTHACRIDINE
XANTHOTOXIN
2,3-XYLIDINE
2,4-XYLIDINE
2,5-XYLIDINE
2,6-XYLIDINE
3,4-XYLIDINE
3,5-XYLIDINE
2,4-XYLIDINE HYDROCHLORIDE
XYLITOL
1-(2,4-XYLYLAZO)-2-NAPTHOL
1,1’-(p-XYLYLENE)BIS(3-(l-AZIRIDINYL)UREA
3,4-XYLYL METHYLCARBAMATE
YOSHI 864
YTTRIUM(III) NITRATE (1:3)
ZEARALENONE
ZEOLITES
ZINC
ZINC ACETATE
ZINC ACETATE, DIHYDRATE
ZINC CHLORIDE
ZINC CHROMATE
ZINC CHROMITE
ZINC OXIDE
ZINC (N,N'-PROPYLENE-1,2-BIS(DITHIOCARBAMATE))
ZINC SULFATE
ZINC SULFATE HEPTAHYDRATE (1:1:7)
Introduction: The following is an alphabetical compilation of chemical substances as listed in "Dangerous Properties of Industrial Materials", 10th Ed., by N. Irving Sax and Richard J. Lewis. This list is intended for use by TTU laboratory personnel as an aid in determining substances for which "designated use areas" will be required under the Chemical Hygiene Plan. It is important to remember that this list is not comprehensive. It does not include all reproductive hazards and does not list mutagens, select carcinogens, or acute toxins.

Questions concerning this list should be directed to Environmental Health and Safety at 742-3876.

A
Abovis
Acebutolol
Acebutolol hydrochloride
Acemetacin
Acepreval
Acetaldehyde
Acetamide
5-Acetamide-1,3,4-thiadiazole-2-sulfonamide
Acetazolamide sodium
Acetic acid methyl nitrosaminomethyl ester
Acetohydroxamic acid
Acetonitrile
3-(alpha-Acetonyl-para-nitrobenzyl)-4-hydroxy-coumarin
17-Acetoxy-19-nor-17-alpha-pregn-4-EN-20-YN-3-one
Acetoxyphenylmercury
Acetoxytriphenylstannane
1-alpha-Acetylmethadol hydrochloride
Acetysalicylic acid
Acetyltryptophan
Acid red 92
4,-(9-Acridinylamino) methanesulphon-meta-anisidide
Acrylic acid
Acrylonitrile
Actihaemyl
Actinomycin
Actinomycin C
Actinomycin D
Acyclovir
Acyclovir sodium salt
Adalat
1-Adamantanamine hydrochloride
Adapin
Adenine
Adenosine-3,-(alpha-amino-para-methoxyhydrocinnamamido)-3,-deoxy- n,n-dimethyl
Adipic acid bis (2-ethylhexyl) ester
Adipic acid dibutyl ester
Adobiol
Adona trihydrate
1-Adrenaline chloride
Adrenocorticotropic hormone
Adriamycin
Aflatoxin
Aflatoxin B1
Afridol blue
Agent orange
Alclometasone dipropionate
Alcohol sulphate
Aldactazide
Aldecin
Aldimorph
Aldrin
alpha-Alkenesulfonic acid
Alkyl dimethylbenzyl ammonium chloride
3-(Alkylamino) propionitrile
Alkylbenzenesulfonate
Allantoxanic acid, potassium salt
Alloxan
Allyl chloride
Allyl glucosinolate
Allylestrenol
(4-Allyloxy-3-chlorophenyl)acetic acid
Alternariol
Alternariol monomethyl ether and alternariol (1:1)
Alternariol-9-methyl ether
Aluminum aceglutamide
Aluminum chloride
Aluminum chloride hexahydrate
Aluminum lactate
Aluminium (III) nitrate, nonahydrate (1:3:9)
Aluminium potassium sulfate, dodecahydrate
Ambroxol hydrochloride
Amfenac sodium monohydrate
Amicardine
N1-Amidinosulfanilamide
Amidoline
5-((2-Aminoacetamido) methyl)-1-(4-chloro-2-(orthochlorobenzoyl) phenyl)
- n,n-dimethyl-1H-S-triazole-3-carboxamide, hydrochloride, dihydrate
Aminoacetonitrile bisulfate
Aminoacetonitrile sulfate
2-Aminobenzimidazole
2-Amino-6-benzimidazolyl phenylketone
Aminobenzylpenicillin
5-Amino-1-bis (dimethylamide) phosphoryl-3-phenyl-1,2,4- triazole
2-Amino-5-bromo-6-phenyl-4 (1h)-pyrimidinone
4-Amino-2-(4-butanoylhexahydro-1h-1,4-diazepin-1-yl)-6,7-dimethoxyquinazoline hydrochloride
2-Amino-5-butylbenzimidazole
5-Amino-1,6-dihydro-7h-v-triazolo (4,5-d) pyrimidin-7-one
trans-4-Aminoethylcyclohexane-1-carboxylic acid
4-Amino-2-(4-butanoylhexahydro-1h-1,4-diazepin-1-yl)-6,7-dimethoxyquinazoline hydrochloride
2-Amino-5-butylbenzimidazole
5-Amino-1,6-dihydro-7h-v-triazolo (4,5-d) pyrimidin-7-one
trans-4-Aminoethylcyclohexane-1-carboxylic acid
3-(2-aminoethyl) indol-5-ol
3-(2-aminoethyl) indol-5-ol creatine sulfate
2-Amino-3-hydroxybenzoic acid
8-Amino-7-hydroxy-3,6-napthalenedisulfonic acid, sodium salt
4-Amino-n-(6-methoxy-3-pyridazinyl)-benzenesulfonamide
3-Amino-4-methylbenzenesulfonylcyclohexylurea
2-Amino-6-(1,-methyl-4,-nitro-5,-imidazolyl) mercaptopurine
1-(4-Amino-2-methylpyrimidin-5-yl)methyl-3-(2-chloroethyl)-3-nitrosoare
2-Amino-4-(methylsulfinyl) butyric acid
5-Amino-2-napthalenesulfonic acid sodium salt
6-Aminonicotinamide
2-Amino-nitroaniline
4-Amino-2-nitroaniline
Aminonucleoside puromycin
meta-Aminophenol
2-Aminophenol
4-Aminophenol
meta-Aminophenol, chlorinated
7-(d-alpha-aminophenylacetamido) desacetoxycephalosporanic acid
3-Aminopropionitrile
beta-Aminopropionitrile fumarate
Aminopropyl aminoethylthiophosphate
3-(2-Aminopropyl) indole
2-Aminopurine-6-thiol
Aminopyrine sodium sulfonate
Aminopyrine-barbital
5-Amino-2-beta-d-ribofuranosyl-as-triazin-3- (2H) -one
4-Amino-2,2,5,5-tetrakis (trifluoromethyl) -3-imidazoline
2-Amino-1,3,4-thiadiazole
2-Amino-1,3,4-thiadiazolehydrochloride
2-Amino-1,3,4-thiadiazole-5-sulfonamide sodium salt
1-Amino-2-(4-thiazolyl)-5-benzimidazolecarbamic acid isopropyl ester
Amtriptyline-n-oxide
Amitrole
Ammonium vanadate
Amosulalol hydrochloride
Amoxicillin trihydrate
dl-Amphetamine sulfate
Ampicillin trihydrate
Amrinone
Amsacrine lactate
Amygdalin
Anabasine
Anatoxin I
Androctonus amoreuxi venom
Androfluorene
Androfurazanol
Androstanazol
Androstenediol dipropionate
Androstenedione
Androstenolone
Androstestone-M
Angel dust
Angiotonin
Anguidin
Aniline violet
6-(para-anilinosulfonyl) metanilamide
2-Anthracenamine
Antibiotic BB-K8
Antibiotic BB-K8 sulfate
Antibiotic BL-640
Antibiotic MA 144A1
Antimony oxide
Apholate
9-beta-d-Arabinofuranosyl adenine
Arabinocytidine
Ara-C palmitate
Araten phosphate
Arathane
1-Arginine monohydrochloride
Aristocort
Aristocort acetonide
Aristocort diacetate
Aristolic acid
Aristospan
Aromatol
Arotinoic acid
Arotinoic methanol
Arotinoid ethyl ester
Arsenic
ortho-Arsenic acid
Arsenic acid, disodium salt, heptahydrate
Arsenic acid, sodium salt
Arsenic trioxide
Asalin
1-Ascorbic acid
1-Asparaginase
Atrazine
Atromid S
Atropine
Atropine sulfate (2:1)
Auranofin
Aureine
1-Aurothio-d-glucopyranose
Azabicyclane citrate
Azactam
Azacytidine
Azaserine
Azathioprine
Azelastine hydrochloride
1-2-Azetidinecarboxylic acid
Azinphos methyl
Azo blue
Azo ethane
Azosemide
Azoxyethane
Azoxymethane

B
Baccidal
Bacmeclinam
Bal
Barium ferrite
Barium fluoride
Bayer 205
Baythion
Befunolol hydrochloride
Bendacort
Bendadryl hydrochloride
Benedectin
Benomyl
Benzarone
d-Benzedrine sulfate
1-Benzhydryl-4-(2-(2-hydroxyethoxy)ethyl)piperazine
Benzidamine hydrochloride
2-Benzimidazolecarbamic acid
1-(2-Benzimidazolyl)-3-methylurea
1,2-Benzisothiazol-3(2H)-one-1,1-dioxide
1,2-Benzisoxazole-3-methanesulfonamide
2-(meta-Benzoylphenyl) propionic acid
Beryllium chloride
Bestrabucil
Betamethasone
Betamethasone acetate and betamethasone phosphate
Betamethasone benzoate
Betamethasone dipropionate
Betamethasone disodium phosphate
Betnelan phosphate
BHT (food grade)
Bindon ethyl ether
Binoside
4-Biphenylacetic acid
2-Biphenylol
3-(4-Biphenyl)propionic acid
Bis(para-acetoxyphenyl)-2-methylcyclohexylidenemethane
4,4-Bis(1-amino-8-hydroxy-2,4-disulfo-7-napthylazo)-3,3,-bitolyl,tetrasodium salt
1,4-Bis(3-bromopropionyl)-piperazine
1,3-Bis(carbamoylthio)-2-(N,N-dimethylamino)propane hydrochloride trans-N,N,-Bis(2-chlorobenzyl)-1,4
Bis(2-chloroethyl) amine hydrochloride
4,-(Bis (2-chloroethyl) amino) acetonilide
4,-(Bis (2-chloroethyl) amino)-2-fluoro acetonilide
dl-3-(para-(Bis (2-chloroethyl) amino) phenyl)alanine
Bis (2-chloroethyl) sulfide
N,N,-Bis (2-chloroethyl)-para-phenylenediamine
Bis (para-chlorophenyl) acetic acid
2,2-Bis (ortho, para-chlorophenyl)-1,1,1-trichloroethane
1,1-Bis (para-chlorophenyl)-2,2,2-trichloroethanol
Bis(dichloroacetyl) diamine
N,N'-Bis(dichloroacetyl)-1,8-diaminoctane
3,5-Bis-dimethylamino-1,2,4-dithiazolium chloride
Bis (dimethylthiocarbamato) zinc
(((3,5-Bis(1,1-dimethylethyl)-4-hydroxyphenyl)methyl)thio)acetic acid 2-ethylhexyl ester
Bis(dimethylthiocarbamoyl) sulfide
2,4-Bis (ethylamino)-6-chloro-s-triazine
Bis (ethylmercuri) phosphate
Bis-HM-A-TDA
Bishydroxycoumarin
Bis (4-hydroxy-3-coumarin) acetic acid ethyl ester
1,4-Bis ((2- ((2-hydroxyethyl) amino) ethyl) amino)-9,10-athracenedione diacetate Bis
Bis(isooctyloxycarbonylmethylthio) dioctyl stannane
Bis (2-methoxy ethyl) ether
Bis (tributyl tin) oxide
2-(3,5-Bis (trifluoromethyl) phenyl) -N-methyl-hydrazinecarbothioamide (9CI)
Bladex
Bleomycin sulfate
Bomt
Bredinin
Bremfol
Bromacil
Bromazepam
Bromocriptine
Bromocriptine mesilate
6-Bromo-1,2-napththoquinone
1,4-Butanediamine
4-Butanolide
Butobarbital
Butoctamide semisuccinate
Butorphanol tartrate
Butoxybenzyl hyoscyamine bromide
Butriptyline
1,4-Butanediamine
n-Butyl acetate
tert-Butyl alcohol
alpha,-((tert-Butyl amino) methyl) -4-hydroxy-meta-xylene-alpha,alpha-diol
Butyl ethyl acetic acid
Butyl flufenamate
n-Butyl glycidyl ether
n-Butyl-3,ortho-acetyl-12-b-13-alpha-dihydrojervine
1-( tert-Butylamino)-3-(2-chloro-5-methylphenoxy) -2-propanol hydrochloride
alpha-Butylbenzenemethanol
5-Butyl-2-benzimidazolecarbamic acid methyl ester
5-Butyl-1-cyclohexylbarbituric acid
1-Butyl-2',6'-pipecoloxylidide
1-Butyl-3-sulfanilyl urea
1-Butyl-3-(para-tolyl sulfonyl) urea
1-Butyl-3-(para-tolylsulfonyl) urea, sodium salt
1-Butyryl-4-(phenylallyl) piperazine hydrochloride
Buzepide methiodide

C
Cadmium (II) acetate
Cadmium chloride
Cadmium oxide
Cadmium sulfate (1:1) hydrate (3:8)
Caffeic acid
Caffeine
Calcium EDTA complex
Calcium fluoride
Calcium phosphonomycin hydrate
Calcium trisodium diethylene triamine pentaacetate
Calcium valproate
Calcium-N-2-ethylhexyl-beta-oxybutyramide semisuccinate
Cambendazole
Candida albicans glycoproteins
Cannabidiol
Cannabinol
Cannabis
Cap
Captafol
Carbanilic acid isopropyl ester
Carbendazim and sodium nitrite (5:1)
Carbidopa
Carboprost tromethamine
Cargutocin
Carmetizide
Carmofur
1-Carnitine hydrochloride
Carnosine
Carzinophilin
Cassava, manihot utilissima
Catatoxic steroid No. 1
d-Catechol
CAZ pentahydrate
Cefamandole sodium
Cefatoxime sodium
Cefazolin sodium salt
Cefmetazole
Cefmetazole sodium
Cefroxadin
Cefuroxim
Cellryl
Cellulose acetate monophthalate
Centchroman
Cephalothin
Cervagem
Cethylamine hydrofluoride
alpha-Chaconine
Chenodeoxycholic acid
Chlodithane
Chlorambucil
Chloramphenicol
Chloramphenicol monosuccinate sodium salt
Chloramphenicol palmitate
Chlorcyclizine hydrochloride
Chlorcyclizine hydrochloride A
Chlorisopropamide
Chlormadinon
2-Chloroadenosine
3-Chloro-4-aminoaniline
1-((para-(2-Chloro-ortho-anisamido)ethyl)phenyl)sulfonyl)-3-cylohexyl urea
1-para-Chlorobenzyl-1H-indazole-3-carboxylic acid
7-Chloro-5-(ortho-chlorophenyl)-1,3-dihydro-3-hydroxy-2H-1,4-benzodiazepin-2-one
5-Chloro-2-(2-(diethylamino)ethoxy)benzaniilide
7-Chloro-1,3-dihydro-5-phenyl,2H-1,4-benzodiazepin-2-one
Chloroethyl mercury
Chlorogenic acid
endo-4-Chloro-N-(hexahydro-4,7-methanoisoindol-2-YL)-3-sulfamoylbenzamide
7-Chloro-1-methyl-5-phenyl-1H-1,5-benzodiazepine-2,4(3H,5H)-dione
2-Chloro-11-(4-methylpiperazino) dibenzo (b,f) (1,4) thiazepine
4-((5-Chloro-2-oxo-3(2H)-benzothiazolyl)acetyl)-1-piperazineethanol
4-(3-(2-Chlorophenothiazin-10-yl)propyl)-1-piperazineethanol
Chlorophenols
4-Chlorophenylalanine
1-(meta-Chlorophenyl)-3-N,N-dimethylcarbamoyl-5-methoxypyrazole
3-(para-Chlorophenyl)-1,1, dimethylurea
5,(2-Chlorophenyl)-7-ethyl-1-methyl-1,3-dihydro-2H-thieno (2,3-e)(1,4) diazepin-2-one
N-3-Chlorophenylisopropylcarbamate
3-(4-Chlorophenyl)-1-methoxy-1-methylurea
2-(ortho-Chlorophenyl)-2-(methylamino)cyclohexanone hydrochloride
4-(p-Chlorophenyl)-2-phenyl-5-thiazoleacetic acid
4-(p-Chlorophenylsulfonfyl)-3-propylurea
4-Chlorophenyl-2,4,5-trichlorophenylazosulfide mixed with 1,1-bis(4-chlorophenyl)ethanol
p-Chlorophenyl-2,4,5-tichlorophenyl sulfone
Chloropromazine
Chloropromazine hydrochloride
Chloroquine diphosphate
N-(3-Chloro-ortho-tolyl) anthranilic acid
2-((4-Chloro-ortho-tolyl)oxy)propionic acid potassium salt
Chloro(triethylphosphine)gold
Chlorovinylarsine dichloride
4-Chloro-3,5-xylenol
Chlorphentermine
g-(4-(para-Chlorophenyl)-4-hydroxiperidino)-para-fluorbutyrophenone
Cholecalciferol
Cholestyramine
Chorionic gonadotropin
Chromium chloride
Chromium trichloride hexahydrate
Chromomycin A3
C.I. 45405
C.I. Direct blue 1, tetrasodium salt
C.I. Direct blue 15, tetrasodium salt
Cilostazol
Cinoxacin
Citrinin
Citrus hystrix DC., fruit peel extract
Clavacin
Clindamycin-2-palmitate monohydrochloride
Clindamycin-2-phosphate
Clobetasone butyrate
Cloconazole hydrochloride
Clofedanol hydrochloride
Clofexamide phenylbutazone
trans-Clomiphene citrate
Clonidine hydrochloride
Clonixic acid
Cloxazolazepam
Clozapine
Coagulase
Corn oil
Corticosterone
Corticosterone acetate
Cortisol
Cortisone
Cortisone-21-acetate
Cravetin
meta-Cresol
Cumosterol
S-1-Cyano-2-hydroxy-3-butene
Cyanotrimethylandrostenolone
Cycasin
Cyclocytidine hydrochloride
Cycloguanyl
Cyclohexanamine hydrochloride
Cyclohexylamine
Cyclohexylamine sulfate
2-(Cyclohexylamino)ethanol
N-Cyclohexyl-2-benzothiazolesulphenamide
4-(4-Cyclohexyl-3-chlorophenyl)-4-oxobutyric acid
1-Cyclohexyl-3-para-tolysulfonyleurea
Cyclonite
Cyclopamine
alpha-Cyclopiazonic acid
5-(Cyclopropylcarbonyl)-2-benzimidazolecarbamic acid methyl ester
Cysteine-germanic acid
Cytochlasin B
Cytochalasin E
Cytoxyl amine

D
Demeton-O + Demeton-S
2,-Deoxy-5-fluorouridine
2-Deoxyglucose
Dephosphate bromofenofos
Depofemin
Depo-medrate
N-Desacetylthiocolchicine
Desoxymetasones
Detergents, Liquid containing AES
Detergents, Liquid containing LAS
Dexamethasone 17,21-dipropionate
Dexamethasone palmitate
Dextran 70
Dextropropoxyphene napsylate
alpha-DFMO
Diabenor
Diacetilmorphine hydrochloride
Dialifor
Diazoxide
N,N-Di-n-butylformamide
Dicarbadodecaboranyl methyl sulfide
Dicarbadodecaboranyl methylpropyl sulfide
Dichloroacetonitrile
ortho-Dichlorobenzene
para-Dichlorobenzene
4,5-Dichloro-meta-benzenedisulfonamide
2,2,-Dichlorobiphenyl
Dichloro-1,3-butadiene
1,4-Dichloro-2-butene
2,2-Dichloro-1,1-difluorethyl methyl ether
5,5-Dichloro-2,2,-dihydroxy-3,3,-dinitrophenyl
Dichloroethane
2,3-Dichloro-N-ethylmaleimide
Dichloro-N-methylmaleimide
2,4-Dichlorophenol
(2,4-Dichlorophenoxy) acetic acid butoxyethyl ester
(2,4-Dichlorophenoxy) acetic acid dimethylamine
4-(2,4-Dichlorophenoxy) butyric acid
2-(2,4-Dichlorophenoxy) propionic acid
2,4-Dichlorophenoxyacetic acid propylene glycol butyl ether ester
2-(2,6-Dichlorophenylamino)-2-imidazoline
3,6-Dichloro-2-pyridinecarboxylic acid
Dicyclohexyl-18-crown-6
7,8-Didehydroretinoic acid
2,3-Dideoxycytidine
2-(Diethylamino)-2,6-acetoxylidide
2-(Diethylamino)-2,6-acetoxylidide hydrochloride
o-(Diethylaminoethoxy)benzanilide
2-(2-(Diethylamino)ethoxy)-2-chloro-benzanilide
2-(2-(Diethylamino)ethoxy)-3-methylbenzanilide
1-(2-(Diethylamino)ethyl)reserpine
1-(2-(Diethylamino)ethyl)reserpine bitartrate
7-Diethylamino-5-methyl-s-triazolo(1,5-a)pyrimidine
n,n-Diethylbenzenesulfonamide
Diethylcarbamazine
Diethylcarbamazine acid citrate
Diethyl carbitol
Diethylene glycol monomethyl ether
n,n-Diethyllysargamide
Diethyl mercury
Diethyl phthalate
Diethyl sulfate
Diethyl triazene
a,a-Diethyl-(E)-4,4,-stilbenediol bis(dihydrogen phosphate)
Diethylstilbestrol
Diflorasone diacetate
Diflucortolone valerate
dl-alpha-Difluoromethylornithine
5-(2,4-Difluorophenyl) salicylic acid
Difluprednate
Digoxin
Dihydrocodeineone bitartrate
Dihydriodihydrostilbestrol
3,4-Dihydro-6-(4-(3,4-dimethoxybenzoyl)-1-piperazinyl)-2(1H)-quinolinone
5,6-Dihydro-N-(3-(dimethylamino)propyl)-11H-dibenz(b,e)azepine
10,11-Dihydro-5-(3-(dimethylamino)propyl)-5H-dibenz(b,f)azepine hydrochloride
5,6-Dihydro-para-dithiin-2,3-dicarboximide
10,11-Dihydro-5-(3-(methylamino)propyl)-5H-dibenz(b,f)azepine hydrochloride
1,7-Dihydro-6H-purin-6-one
7,8-Dihydropertinoic acid
Dihyrostreptomycin
3,4-Dihydroxy-alpha-((isopropylamino)methyl)benzyl alcohol
1-(3,4-Dihydroxyphenyl)-2-methylanine
17R,21-alpha-Dihydroxy-4-propylajmalanium hydrogen tartrate
alpha-(2-(Diisopropylamino)ethyl)-alpha-phenyl-2-pyridineacetamide
Dilantin
Diltiazem hydrochloride
Dimatif
1,2-Dimethoxyethane
Dimethoxy ethyl phthalate
10-(2-(Dimethylamino)propyl)phenothiazine
2,6-Dimethylhydroquinone
Dimethylpipramine
Dimethylthiomethylphosphoramide
n,n-Dimethyl-p-((m-tolyl)azo)aniline
5-(3,3-Dimethyl-1-triazeno)imidazole-4-carboxamide citrate
4,6-Dinitro-ortho-cresol ammonium salt
2,4-Dinitrophenol
Dinoprost methyl ester
Dinoprostone
meta-Dioxane-4,4-dimethyl
1,4-Di-N-oxide of dihydroxymethylquinoxaline
1,3-Dioxolane-4-methanol
3-(2-(1,3-Dioxo-2-methylindanyl)) glutarimide
3-(2-(1,3-Dioxo-2-phenylindanyl)) glutarimide
3-(2-(1,3-Dioxo-2-phenyl-4,5,6,7-tetrahydro-4,7-dithiaindanyl)) glutarimide
1,3-Dioxo-2-(3-pyridylmethylene)indan
Diphenylhydantoin and phenobarbital
Dipropyl adipate
Disodium etidronate
Disodium inosinate
Disodium methanearsenate
Disodium molybdic acid dihydrate
Disulfiram
Dithane M-45
2,2-Dithiodipyridine-1,1-dioxide
Dobutamine hydrochloride
Dodecylguanidine acetate with sodium nitrate(3:5)
Doriden
Doxifluridine
Doxycycline
Duazomycin
Durabolin
Dydrogesterone
Dye C

E
Efflornithine hydrochloride
Elavil
Elavil hydrochloride
EM 255
Emoquil
Enalapril maleate
Enavid
Enflurane
Enoxacin
Epe
Ephedrine
Epichlorohydrin
Epidehydrocholesterin
4,5-Epithiovaleronitrile
EPN
Eraldin
Ergochrome AA (2,2)-5-beta,6-alpha,10-beta-5',6'-alpha,1-,-beta
Ergotamine tartrate
Ergoterm TGO
Erythromycin
beta-Escin
Estradiol-3-benzoate mixed with progesterone (1:14 moles)
Estradiol polyester with phosphoric acid
Estradiol-3-benzoate mixed with progesterone (1:14 moles)
Estra-1,3,5(10)-triene-17-beta-diol-17-tetrahydropyranyl ether
Ethinamate
Ethinyl estradiol
dl-Ethionine
Ethisterone and diethylstilbestrol
2-Ethoxyethanol
2-Ethoxyethyl acetate
Ethyl benzene
Ethyl butylcarbamate
Ethyl (2,4-dichlorophenoxy) acetate
alpha-((Ethylamino)methyl)-meta-hydroxybenzyl alcohol
1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid
Ethyl-S-dimethylaminoethyl methylphosphonothiolate
Ethylene chlorhydrin
1,2-Ethylene dibromide
Ethylene dichloride
Ethylene glycol
Ethylene glycol diethyl ether
Ethylenebis (dithiocarbamato) manganese and zinc acetate (50:1)
Ethylestrenol
2-Ethylhexanol
Ethyl-para-hydroxyphenyl ketone
Ethylmercuric phosphate
5-Ethyl-N-methyl-5-phenylbarbituric acid
1-Ethyl-4-(2-morpholinoethyl)-3,3-diphenyl-2-pyrrolidinone
Ethynorgestrienone
17-Ethyl-19-nortestosterone
5-Ethyl-5-phenylbarbituric acid
1-5-Ethyl-5-phenylhydantoin
5-(2-Ethylphenyl)-3-(3-methoxyphenyl)-s-triazole
Ethyltrichlorphon
Ethynodiol
Etoperidone
ETP

F
False hellebore
Famfos
Famotidine
FD&C red No. 2
Feldene
Fenestrel
Fenoprofen calcium dihydrate
Fenoterol hydrobromide
Fenthionam
Fiboran
Flomoxef sodium
Floxaflavon sodium
Flubendazole
Flucortolone
Flunarizine dihydrochloride
Flunisolid
Flunitrazepam
Fluorobutyrophophene
Fluoricortisone
3-Fluoro-4-dimethylaminoazobenzene
Fluorohydroxyandrostenedione
3-Fluoro-4-phenylhydratropic acid
Flutamide
Flutazolam
Flutropium bromide hydrate
Fonazine mesylate
Forphenicol
Fortimicin A
Fortimicin A sulfate
Fumidil
Furazosin hydrochloride
Fusarenone X
Fusaric acid calcium salt
Fyrol FR 2
G
Gastrozepin
Gentamycin sulfate
Germanium compounds
Gindaraine hydrochloride
Glucagon
2-(beta-d-Glucopyranosyloxy) isobutyronitrile
d-Glucose
Gludiase
Glycinonitrile
Glycyrrhizic acid, ammonium salt
Gonadotropin releasing hormone agonist
Gossypol acetic acid
Guanabenz acetate
Guanazodine
Guanine-3-N-oxide

H
HBK
Haloanisone
Halofantrine hydrochloride
Haloperidol decanoate
Halopredone acetate
Halothane
Haloxazolam
HCDD
Hematoidin
Heptamethylphenylcyclotetrasiloxane
Heptyl phthalate
Heroin
Hexabromonaphthalene
2,2',4,4',5,5'-Hexachloro-1,1',1'-biphenyl
2,2',3,3',4,4'-Hexachlorobiphenyl
Hexachlorobutadiene
4,5,6,7,8,8-Hexachlor-d1,5-tetrahydro-4,7-methanoinden
1,2,3,4,7,8-Hexachlorodibenzofuran
Hexachlorophene
4,5,6,7,8-Hexachlor-D1,5-tetrahydro-4,7-methanoinden
1-Hexadecanamine
Hexadecyltrimethylammonium bromide
Hexafluoroacetone
Hexafluoro acetone trihydrate
Hexamethonium bromide
Hexamethylmelamine
1,6-Hexanediamine
Hexacyclium methylsulfate
Hexone
n-Hexyl carborane
Homofolate
Human immunoglobin COG-78
Hyaluronic acid, sodium salt
Hydantoin
Hydralazine hydrochloride
Hydrazine
Hydrazine sulfate (1:1)
Hydrochlorobenzethylamine dimaleate
Hydrochloric acid
Hydrocortisone sodium succinate
Hydrocortisone-21-acetate
Hydrocortisone-17-butyrate
Hydrocortisone-17-butyrate-21-propionate
Hydrocortisone-21-phosphate
Hydrofluoric acid
10-beta-Hydroperoxy-17-alpha-ethynyl-4-estren-17-beta-OL-3-one
Hydroquinone-beta-d-glucopyranoside
N-Hydroxy ethyl carbamate
4-Hydroxyacetalilide
N-Hydroxy-N-acetyl-2-aminofluorene
N-Hydroxyadenine
6-N-Hydroxyadenosine
3-alpha-Hydroxy-17-androstan-1-one
17-beta-Hydroxy-5-beta-androstan-3-one
3-Hydroxybenzoic acid
5-Hydroxymethyl-4-methyluracil
2-Hydroxymethylphenol
N-(Hydroxymethyl)phthalimide
p-Hydroxyphenylacetic acid
3-(1-Hydroxy-2-piperidinoethyl)-5-phenylisoxazole citrate
2-Hydroxy-N-(3-(meta-(piperidinomethyl)phenoxy)propyl)acetamide acetate (ester hydrochloride)
beta-(N-(3-Hydroxy-4-pyridone))-alpha-aminopropionic acid
4-Hydroxysalicylic acid
dl-Hydroxytryptophan
5-Hydroxy-1-tryptophan
dl-Hydroxytryptophan
5-Hydroxy-1-tryptophan
Hypoclorous acid
Hypoglycine B

Ifenprodil tartrate
IMET 3106
4-Imidazo (1,2-alpha) pyridin-2-YL-alpha-methylbenzeneacetic acid
Imidazole mustard
2-Imidazolidinethione
2-Imidazolidinethione mixed with sodium nitrite
2-Limo-5-phenyl-4-oxazolidinone
Improsulfan tosylate
Indacrinone
Indeloxazine hydrochloride
Indole-3-carbinol
Insulin
Iocarmate meglumine
Iopramine hydrochloride
Iotroxate meglumine
Ipratropium bromide
Iron nickel zinc oxide
Iron-sorbitol
Isoamylalin
Isoamyl 5,6-dihydro-7,8-dimethyl-4,5-dioxo-4H-pyrano (3,2-c) quinoline-2-carboxylate
Isothiocyanic acid, phenyl ester

J
Jervine
Jervine-3-acetate
Josamycin

K
Kanamycin
Kanamycin sulfate (1:1) salt
Karminomycin
Kerlone
Ketamine
Ketoprofen sodium
Ketotifen fumarate
KF-868
Khat leaf extract
KM-1146
KPE

L
Latamoxef sodium
Lead
Lead chloride
Lecithin iodide
Lenampicillin hydrochloride
Lendormin
Lente insulin
Lentinan
Leptosan
1-Leucine
Leurocristine sulfate (1:1)
Levamisole hydrochloride
Levorin
Levothyroxine sodium
Librium
Linear alkylbenzenesulfonate, sodium salt
Linoleic acid (oxidized)
Liothyronine
Lipopolysaccharide, escherichia coli
Lipopolysaccharide, from B. Abortus Bang.
Lithium carbonate (2:1)
Lithium carmine
Lividomycin
Lobenzarit disodium
Locoweed
Lofetensin hydrochloride
Luteinizing hormone antiserum
Luteinizing hormone-releasing hormone
Luteinizing hormone-releasing hormone, diacetate (salt)
Luteinizing hormone-releasing hormone, diacetate, tetrahydrate
Lyndiol
Lysenyl hydrogen maleate
d-Lysergic acid diethylamide tartrate
Lysergide tartrate
Lysine

M
Mafenide acetate
Magnesium glutamate hydrobromide
Magnesium sulfate (1:1)
Malathion
Maleimide
Malotilate
Maltose
Manganese (II) sulfate (1:1)
Maprotiline hydrochloride
Marezine hydrochloride
Maytansine
Mazindol
Mec
Meclizine dihydrochloride
Meclizine hydrochloride
Medemycin
Medrogestone
Medroxyprogesterone
Medullin
Melengestrol acetate
Mentha arvensis, oil
Mepiprazole dihydrochloride
Mepyrapone
Mequitazine
2-Mercapto-1-methylimidazole
1-(d-3-Mercapto-2-methyl-1-oxopropyl)-1-proline (S,S)
N-(2-Mercapto-2-methylpropanoyl)-1-cysteine
6-Mercaptopurine monohydrate
6-Mercaptopurine 3-N-oxide
Mercaptopurine ribonucleoside
d,3-Mercaptopoaline
Mercuric acetate
Mercuric oxide
Mercury
Mercury (II) iodide
Mervan ethanolamine salt
Mescaline
Mesoxalylurea monohydrate
Metalutin
Metaproterenol sulfate
Methadone
Methadone hydrochloride
dl-Methadone hydrochloride
Methallyl-19-nortestosterone
Methaminodiazeopoxide hydrochloride
1-Methamphetamine hydrochloride
Methaqualone hydrochloride
Methedrine
dl-Methionine
l-Methionine
Methionine sulfoximine
Methofadin
Methophenazine difumarate
Methotrexate sodium
Methoxyacetic acid
3-Methoxycarbonylaminophenyl-N-3,-methylphenylcarbamate
5-Methoxyindoleacetic acid
4-(6-Methoxy-2-naphthyl)-2-butanoine
2-(3-Methoxyphenyl)-5,6-dihydro-s-triazolo (5,1-alpha) isoquinoline
2-(para-(6-Methoxy-2-phenyl-3-indenyl)phenoxy)triethylamine hydrochloride
2-(para-(para-Methoxy-alpha-phenylphenethyl)phenoxy)triethylamine hydrochloride
N1-(3-Methoxy-2-pyrazinyl)sulfanilamide
Methylacetamide
Methyl alcohol
Methyl azoxyethyl acetate
Methyl benzimidazole-2-YL carbamate
2-Methyl butylacrylate
Methyl chloride
Methyl chloroform
Methyl ethyl ketone
Methyl hydrazine
Methyl isocyanate
Methyl (methylthio) mercury
Methyl pentachlorophenate
Methyl phenidyl acetate
Methyl salicylate
Methyl thiourea
1-Methyl-5-chloroindoline methylbromide
Methylchlortetracycline
N-Methyl-4-cyclohexene-1,2-dicarboximide
N-Methyl-N-desacetylcolchicine
N-Methyl-dibromomaleinimide
beta-Methyldigoxin
17-alpha-Methyl hydroxytestosterone
N-Methyl-3,6-dithia-3,4,5,6-tetrahydrophthalimide
Methylene chloride
Methylene dimethanesulfonate
N,N-Methylenebis(2-amino-1,3,4-thiadiazole)
2-Methylene cyclopropanylalanine
3-(1-Methylethyl)-1H-2,1,3-benzothiazain-4(3H)-one-2,2-dioxide
4-Methylthieno thiourea
3-Methyl-5-ethyl-5-phenylhydantoin
x-Methylfolic acid
N-Methylformamide
Methylthesperidin
4-Methyl-7-hydroxycoumarin
Methyl-ortho-(4-hydroxy-3-methoxycinnamoyl) reserpin
2-Methyl-1,3-indandione
N-Methyllorazepam
Methylmercuric dicyandiamide
Methylmercuric phosphate
Methylmercury
Methylmercury hydroxide
1-Methyl-6-(1-methylallyl)-2,5-dithiobiurea
d-3-Methyl-N-methylmorphinan phosphate
N-Methyl-alpha-methyl-alpha-phenylsuccinimide
4-(N-Methyl-N-nitrosamino)-1-(3-pyridyl)-1-butanone
N-Methyl-N-nitroso-1-propanamine
(3-Methyl-4-oxo-5-piperidino-2-thiazolidinydine) acetic acid ethyl ester
10-Methylphenothiazine-2-acetic acid
3-Methyl-2-phenylmorpholine hydrochloride
N-Methyl-2-phenyl-succinimide
Methyl-4-phthalimido-di-glutaramate
N-Methyl-2-phthalimido-glutarimide
N-Methylpyrrolidone
Methylsulfonyl chloramphenicol
t-N-Methyl-3,4,5,6-tetrahydrophthalimide
Metiapine
Meticrane
Metoprine
Metoprolol tartrate
Metrizamide
Mezinium methyl sulfate
Mezlocillin
Miconazole nitrate
Micromycin
Midodrine

L-146
Mikelan
Miloxacin
Miltown
Mineral oil
Mineral oil, petroleum extracts, heavy naphthenic distillate solvent
Mirex
Mithramycin
MN-1695
Mobilat
Molybdenum
Monoethylhexyl phthalate
Monoethylphenyltriazene
Monosodium glutamate
Morphine hydrochloride
Morphine sulfate
Morphocycline
Moxestrol
Moxnidazole
Mucopolysaccharide, polysulfuric acid ester
Muldamine
Mycosporin

Nafoxidine hydrochloride
Naftidrofuryl oxalate
Naja nigricollis venom
Naloxone hydrochloride
Naphthalene
beta-Naphthoflavone
1-Naphthol
Navaron
Neem oil
Nembutal sodium
Neocarzinostatin
Neoprene
Neoproserine
Neosynephrine
Netilmicin sulfate
Nickel
Nickel carbonyl
Nickel subsulfide
Nickelous chloride
Nicotergoline
Nicotine
Nicotine tartrate (1:2)
N-Nicotinoyltryptamide
Nipradilol
Nitric acid
Nitrobenzene
Nitrofurantoin
Nitrogen dioxide
Nitrogen oxide
Nitroglycerin
1-(2-Nitroimidazol-1-YL-3-methoxypropan-2-OL
Nitromifene citrate
2-Nitropropane
4-Nitroquinoline-N-oxide
Nitrosocimetidine
N-Nitrosodi-N-propylamine
N-Nitroso-N-ethyl aniline
N-Nitrosopiperidine
1-(Nitrosopropylamino)-2-propanol
N-Nitroso-N-propylurea
Nizofenone fumarate
Norchlorcyclizine
Norchlorcyclizine hydrochloride
1-Norepinephrine
Norethisterone enanthate
Norgestrel
1-Norgestrel
19-Norpregn-4-ENE-3,20-dione
19-Nor-17-alpha-pregn-5(10)-EN-20-YNE-3-alpha,17-diol
19-Nor-17-alpha-pregn-5(10)-EN-20-YNE-3-beta,17-diol
19-Nor-17-alpha-pregn-4-EN-20-YN-17-OL
Novadex
Nutmeg oil, east indain
Nystatin

O
Ochratoxin
Ochratoxin A sodium salt
Octabromodiphenyl
Octachlorodibenzodioxin
Octoclothepine
Ofloxacin
Oleamine
Oleylamine hydrofluoride
Oncodazole
Ophthazin
Orgoteins
Orphenadrine hydrochloride
Oxaprozin
Oxatimide
Oxazolazepam
Oxepinac
Oxfendazole
Oxibendazole
Oxiranecarboxylic acid, 3-(((3-methyl-1-(((3-methylbutyl)amino) carbonyl)-,ethyl ester,
(2S-(2-alpha-3- beta )R*)))
N-(2-Oxo-3,5,7-clycoheptatrien-1-YL)aminoxocetic acid ethyl ester
2-(3-Oxo-1-indanylidene)-1,3-indandione
N-(2-Oxo-3-piperidyl)phthalimide
Oxybutynin chloride
Oxymorphpnone hydrochloride
beta-Oxypropylpropynitrosamine

P
Padrin
Palm oil
Panoral
d-Pantethine
Pantocrin
Papaverine chlorohydrate
Paramathasone acetate
Paraquat dichloride
Paraxanthine
Pavisoid
PE-043
Penicillic acid
Penitrem A
Pentachlorobenzene
2,3,4,7,8-Pentachlorodibenzofuran
Pentachloronitrobenzene
Pentachlorophenol
Pentazocine hydrochloride
Pentostatin
Pentothal
Pentothal sodium
Pentoxyphylline
Perchloroethylene
Perdipine
Perfluorodecanoic acid
Periactin hydrochloride
Perphenazine hydrochloride
Pharmagel A
1,10-Phenanthroline
Phenfluoramine hydrochloride
Phenol
Phenylacetic acid
1-Phenylalanine
17-beta-Phenylaminocarboxylatoestra-1,3,5(10)-triene-3-methyl ether
para-(Phenylazo)aniline
2-Pheny1-5-benzothiazoleacetic acid
2-Phenyl-5,5-dimethyl-tetrahydro-1,4-oxazine hydrochloride
2-Phenylethylhydrazine
Phenylmethyclosiloxane, mixed copolymer
Phenyl-2-pyridylmethyl-beta-N,N-dimethylaminoethyl ether succinate
Phomopsin
Phorbol myristate acetate
Phosphonacetil-1-aspartic acid
Phosphoramid mustard cyclohexylamine salt
Phthalazinol
Phthalimide
N-Phthaloly-1-aspartic acid
N-Phthalylisoglutamine
Physostigmine sulfate
Phytohemagglutinin
Picloram
Pimozide
Piperidine
3-Piperidine-1,1-diphenyl-propanol-(1) methanesulphanate
Piperin
Piperonyl butoxide
Pipethanate ethylbromide
Pipram
Podophyllin
Podophyllotoxin
Polychlorinated biphenyl (Kanechlor 300)
Potassium bichromate
Potassium canrenoate
Potassium chromate (VI)
Potassium clavulanate
Potassium nitrate
Potassium perchlorate
Potassium thiocyanate
Potato blossoms, glycoalkaloid extract
Pranoprofen
Prednisolone succinate
Prednisone 21-acetate
Predonin
Predonin soluble
5-alpha-17-alpha-Pregna-2-EN-20-YN-17-OL, acetate
Primaquine phosphate
Primobolan
Prinadol hydrobromide
Procarbazine
Procarbazine hydrochloride
Procaterol hydrochloride
Propadrine hydrochloride
Propanidide
3-Propanolamine
Proparthrin
Propoxur
2-Propoxyethyl acetate
Propyl carbamate
Propyl cellosolve
Propylene glycol monomethyl ether
Propylene oxide
2-Propylpentanoic acid
Propylthiouracil and iodine
2-Propylvaleramide
Prostaglandin E2 sodium salt
Prostaglandin F1-alpha
Protizinic acid
Proxil
Pseudolaric acid A
Pseudolaric acid B
Pyrantel pamoate
Pyrazine-2,3-dicarboxylic acid imide
Pybuterol hydrochloride
Pyridinamine (9CI)
2,3-Pyridinedicarboximide
3,4-Pyridinedicarboximide
1-(Pyridyl-3)-3,3-dimethyl triazene
1-Pyridyl-3-methyl-3-ethyltriazene
Pyrimidine-4,5-dicarboxylic acid imide

Q
Quaalude
Quinine
2-Quinoline thioacetamide hydrochloride

R
Ralgro
Refosporen
Reptilase
Yohimban-16-carboxylic acid derivative of benz(g)indolo(2,3-a)quinolizine
Reserpine
Retinoid etretin
all-trans-Retinylidene methyl nitrone
Rhodamine 6G extra base
2-beta-d-Ribofuranosyl-as-triazine-3,5(2H,4H)-dione
1-beta-d-Ribofuranosyl-1,2,4-triazole-3-carboxamide
Ricin
Rifamycin SV
Ripcord
Ritodrine hydrochloride
Rizaben
Robaveron
Ronnel
Rose bengal sodium
Rowachol
Rowatin
R Salt
Rubratoxin B
Rythmodan

S
Salicylaldehyde
Salicylamide
Salicylic acid
Salicylic acid, compounded with morpholine (1:1)
ortho-Salicylsalicylic acid
Salipran
Salmonella enteritidis endotoxin
SCH 20569
Scopolamine
Sefril
Selenodiglutathione
Serum gonadotropin
Sfericase
Silicone 360
Sisomicin
S. Marcescens lipopolysaccharide
Smoke condensate, cigarette
Sodium para-aminosalicylate
Sodium arsenite
Sodium benzoate
Sodium bicarbonate
Sodium chloride
Sodium chlorite
Sodium chondroitin polysulfate
Sodium colistinemethanesulfonate
Sodium cyanide
Sodium cyclamate
Sodium dehydroacetic acid
Sodium dichlorocyanurate
Sodium-2,4-dichlorophenoxyacetate
Sodium diethylthiocarbamate
Sodium diphenyl-diazo-bis(alpha-naphthylaminesulfonate)
Sodium lauryl sulfate
Sodium nigericin
Sodium nitrite and carbendazime (1:1)
Sodium nitrite and 1-citrulline (1:2)
Sodium nitrite and 1-(methylethyl) urea
Sodium nitroferricyanide
Sodium pentachlorophenate
Sodium picosulfate
Sodium piperacillin
Sodium retinoate
Sodium salicylate
Sodium selenite pentahydrate
Sodium sulfate (2:1)
Sodium d-thyroxine
Sodium tolmetin dihydrate
(22s,25r)-5-alpha-Solanidan-3-beta-OL
Solanid-5-ENE-3-beta, 12-alpha-diol
(22s,25r)-Solanid-5-EN-3-beta-OL
Solanine
Solcoseryl
Spectogard
Spiclomazine hydrochloride
Spiramycin
Spiroperidol
SRC-II, heavy distillate
1-ST-2121
Sterculia foetida oil
Stimulexin
Streptomycin
Streptomycin and dihydrostreptomycin
Streptomycin sesquisulfate
Streptomycin sulphate
Streptonigran
Streptonigrin methyl ester
STS 557
Styrene
Subtigen
Succinonitrile
Sucrose
Sulfadiazine silver salt
Sulfadimethoxypyrimidine
Sulfoxononemethoxyn
Sulfamoxole-trimethoprim mixture
6-Sulfanilamido-2,4-dimethoxypyrimidine
5-Sulfanilamido-3,4-dimethyl-isoxazole
Sulfanilylurea
N-Sulfanylacetamide
alpha-Sulfo benzylpenicillin disodium
Sulfuric acid
Sulocidyl
Sulpipride hydrochloride
Supercortyl
Superprednol
Surgam
Surital sodium
Surmontil maleate
Suxibuzone
Sweet pea seeds
Sygethin
Synephrine tartrate
Synsac

T
T-1982
T-2588
Tarweed
Tellurium
Tellurium dioxide
Temephos
Tenormin
Terbutaline sulphate
Terodiline hydrochloride
1,1,3,3-Tetradecaneurea
2,3,7,8-Tetrachlordodibenzofuran
Tetrachloroacetone
1,1,3,3-Tetrachloroacetone
3,3',4,4'-Tetrachloroazoxbenzene
1,2,3,4-Tetrachlorobenzene
3,3',4,4'-Tetrachlorobiphenyl
2,3,7,8-Tetrachlorodibenzofuran
Tetracycline
Tetracycline hydrochloride
2-(para-(1,2,3,4-Tetrahydro-2-(para-chlorophenyl)naphthyl)phenoxy) triethyl amine
2,3,4,5-Tetrahydro-2,8-dimethyl-5-(2-(6-methyl-3-pyridyl)ethyl)-1H-pyrid 0-(4,3-beta) indole
Tetrahydro-3,5-dimethyl-4H,1,3,5-oxadiazine-4-thione
5,6,7,8-Tetrahydrofolic acid
2-(1,2,3,4-Tetrahydro-1-naphthylamino)-2-imidazoline hydrochloride
4-O-Tetrahydropyranlyadriamycin hydrochloride
para-(1,1,3,3-Tetramethylbutyl)phenol, polymer with ethylene oxide and formaldehyde
2,2,9,9-Tetramethyl-1,10-decanediol
Tetramethyl lead
Tetramethylsuccinonitrile
1,1,3,3-Tetramethylurea
Tetronicotylfructose
Tetrapotassium hexacyanoferrate
Tetrasodium fosfestrol
Tetrazosin hydrochloride dihydrate
(+)-Thalidomide
(-)-Thalidomide
Thallium acetate
Thallium chloride
Thallium compounds
Thallium sulfate
Thebaine hydrochloride
para-(2-Thenoyl)hydratropic acid
Theobromine
Theobromine sodium salicylate
Theophylline
1-(Theophyllin-7-YL)ethyl-2-(2-(para-chlorophenoxy)-2-methylpropionate
Thiamine chloride
2-(Thiazol-4-YL) benzimidazole
2-(4-Thiazolyl)-5-benzimidazolecarbamic acid methyl ester
Thioacetamide
Thioinosine
Thymidine
Thyroid
1-Thyroxin
Thyroxine
Tiapride hydrochloride
Ticarcillin sodium
Ticlodone
Timepidium bromide
Timiperone
Tinactin
Tinidazole
Tinoridine hydrochloride
Tiquizium bromide
2,4,5-T isooctyl ester
Titanium (wet powder)
Tizanidine hydrochloride
Tobacco
Tobacco leaf, nicotiana glauca
Tobramycin
Todralazine hydrochloride hydrate
Togal
Tolmetine
Toluene
para-Toluenediamine sulfate
ortho-Toluidine
Tormosyl
2,4,5-T propylene glycol butyl ether ester
Traxanox sodium pentahydrate
Triaminoguanidine nitrate
para,para,-Triazenylenedibenzenesulfonamide
Triazolam
Trichloroacetonitrile
1,2,4-Trichlorobenzene
Trichloroethylene
2,4,4,-Trichloro-2,-hydroxydiphenyl ether
(2,2,2-Trichloro-1-hydroxyethyl) dimethylphosphonate
N-(Trichloromethylthio)phthalimide
4-(2,4,5-Trichlorophenoxy) butyric acid
alpha-(2,4,5-Trichlorophenoxy) propionic acid
Trichloropropionitrile
Triclopyr
Tricosanthin
Tridemorph
Tridiphane
Triethyl lead chloride
Triethylenetetramine
2,2,2-Trifluoroethyl vinyl ether
3,-Trifluoromethyl-4-dimethylaminoazobenzene
Trifluoromethylperazine
2-(8,-Trifluoromethyl-4,-quinolylamino)benzoic acid, 2,3-dihydroxy propyl ester
Trifluperidol
Triglyme
Trimebutine maleate
(+)-Trimethoquinol
Trimethoxazine
5-(3,4,5-Trimethoxybenzyl)-2,4-diaminopyrimidine
3,3,5-Trimethyl-2,4-diketooxazolidine
Trimethylenedimethanesulfonate
Exo-Trimethylenenorbornane
Trimethyl lead chloride
Trimethyl phosphite
1,3,5-Trimethyl-2,4,6-tris(3,5-DI-tert-butyl-4-hydroxybenzyl) benzene
Triparanol
Tritolyl phosphate
Tropacaine hydrochloride
TSH-releasing hormone
Tungsten
dl-meta-Tyrosine
1-Tyrosine

U
Ubiquinone 10
Uracil
Uracil mixture with tegafur (4:1)
Uranyl acetate dihydrate
Urapidil
Urbacide
Urbason soluble
Urethane
Urfamicin hydrochloride
Uridion
Urokinase

V
Valbazen
Valison
Vanadium pentoxide (dust)
Vasodilan
Vasodilian
Vasodistal
Vasotonin
Venacil
Ventipulmin
Veratramine
Veratrine
Veratrylamine
Vincaleukoblastine sulfate (1:1) (salt)
Vinyl toluene
Vinylidene chloride
R-5-Vinyl-2-oxazolidinethione
Viomycin
Vipera berus venom
Viriditoxin
Visken
Vistaril hydrochloride
Vitamin A
13-cis-Vitamin A acid
Vitamin A palmitate
Vitamin B7
Vitamin B12 complex
Vitamin B12, methyl
Vitamin D2
Vitamin K
Vitamin MK 4
Vomitoxin

W
Wait's green mountain antihistamine
Warfarin
Warfarin sodium
White spirit

X
Xamoterolfumarate
Xanax
Xanthinol nicotinate
Xylene
meta-Xylene
ortho-Xylene
para-Xylene
Xylostatin
N-(2,3-Xylyl)anthranilic acid

Y
Ytterbium chloride

Z
Zaroxolyn
Zimelidine dihydrochloride
Zinc carbonate (1:1)
Zinc l-carnosine
Zinc chloride
Zinc (II) EDTA complex
Zinc oxide
Zinc (N,N-propylene-1,2-bis(dithiocarbamate))
Zinc pyridine-2-thiol-1-oxide
Zoapatle, crude leaf extract
Zoapatle, semi-purified leaf extract
Zotepine
Zygosporin A
Zyloprim

1 Prudent Practices in the Laboratory: Handling and Management of Chemical Hazards