History Page

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Revision 3, revised from revision 2 and contains 21 chapters plus an appendix. This Health and Safety Manual is issued September 13, 2004, by the authority of Ralph Powell, Major Idaho State Police



Idaho State Police Forensic Services Health And Safety Manual

Rev. 3, Issued Sept 13, 2004

History Page

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INTRODUCTION

This manual is comprised of a general laboratory safety plan, chemical hygiene plan, and a blood borne pathogen exposure control plan. The goal of this manual is to furnish employees with a safe environment and a place of employment where recognized hazards that cause, or are likely to cause, death or serious physical harm are minimized to the extent possible.

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RESPONSIBILITIES

2.1 Laboratory Manager - The Laboratory Manager has the ultimate responsibility for safety within the Forensic Services laboratory and will, with other administrators, provide continuing support for safety training, inspections, equipment, and audits. It is recommended that this manual be reviewed annually with the staff, documented, and the record of this review be kept by the Laboratory Manager or designee. The laboratory manager is responsible for the following:

2.1.1 Appointing a Safety Officer.

2.1.2 Ensuring that the following records are maintained on each employee by either the Laboratory Manager or designee.

- Emergency contact information, vaccination records, first aid and CPR training, blood borne pathogen training, baseline/annual hearing and blood lead level tests for firearms examiners, and clan lab medical authorization forms.
- 2.1.2.2 Completed mishap forms referenced in the Employee Handbook, section 5.03 or the successor document. (\\dilmon\\global\\Forms\\HR\\Mishap Report.doc) Mishap forms are used to document accidents and injuries (section 3.22), exposure to altergens, carcinogens, mutagens and embryotoxins/teratogens (section 13.4.2.4), and spills either chemical or biological (sections 16.3 and 20.5).

2.1.3 Providing for vaccinations, post-exposure follow-up programs, and work related accident and illness reporting.

- 2.2 Safety Officer Safety Officers are responsible for safety in their laboratory. This includes:
- 2.2.1 Ensuring employees know and follow safety rules; protective apparel and safety equipment are available and in working order; and appropriate training is provided (e.g., location and use of spill equipment).

2.2.2 Providing regular, formal safety and housekeeping inspections including routine inspections of safety equipment.

- 2.2.3 Ensuring the laboratory is in compliance with the department and unit health and safety policies on the safe handling of chemicals, blood borne pathogens, or other hazardous materials employees may come in contact with during laboratory operations.
- 2.2.4 Ensuring Material Safety Data Sheets (MSDS) are available in a location accessible to all employees (via internet is acceptable).
- 2.2.5 Serving as chemical hygiene officer for their laboratory.
- 2.2.5.1 Providing technical guidance in the development and implementation of the provisions of the Chemical Hygiene Plan, chapters 11-18 of the Health and Safety Manual.

- 2.3 Laboratory Employee Each individual has a basic responsibility to himself/herself and colleagues to plan and execute laboratory operations in a safe manner. This includes:
- 2.3.1 Planning and conducting each operation in accordance with written and practical safety procedures.
- 2.3.2 Consulting the appropriate procedure and considering safety in each step.
- 2.3.3 Preparing a mental plan for actions that will be taken in the event of an accidental spill, etc.
- 2.3.4 Developing good personal hygiene habits and using appropriate personal protective apparel and safety equipment.
- 2.3.5 Using universal precautions by treating all chemicals and materials as being potentially hazardous.
- 2.3.6. Treating safety as a first priority. Working safely as a regular, continuing effort, not merely a standby or short-term activity.
- 2.3.7 Reporting unsafe work conditions and other safety concerns to the Safety Officer or a supervisor.
- 2.3.8 Warning other personnel if they are entering a hazardous area and providing them with appropriate protective apparel or equipment, if needed, and/or restricting their access to the area.
- 2.4 Laboratory Safety Committee The Safety Officers from all three laboratories and the Quality Manager comprise this committee. The Safety Officers may solicit assistance from other laboratory sections to perform their duties. The Laboratory Safety Committee has responsibilities, which include:
- 2.4.1 Updating the Health and Safety Manual/Health and Safety Audit Document.
- 2.4.2 Coordinating with each other to resolve health and safety issues on a statewide basis.
- 2.4.3 Researching and coordinating annual Bloodborne Pathogen training.
- 2.5 The Quality Manager The Quality Manager will chair the Laboratory Safety Committee and coordinate the annual safety audit of each laboratory.

3 BEST PRACTICES

- 3.1 Use common sense when working with or around any area where chemicals are being used or stored.
- 3.2 Be aware of electrical hazards from equipment and other power sources. Many chemicals are efficient conductors of electricity.
- 3.3 All containers, containing chemicals, must be properly labeled. Chemicals that are transferred to secondary containers within the laboratory must be labeled consistent with the chemical and reagent labeling guidelines in chapter 14 of this manual.
- 3.4 Keep only the minimum required amount of hazardous chemical at your workstation.
- 3.5 Store all chemicals and samples in appropriate closed containers and in their designated place (i.e. acid storage cabinet).
- 3.6 Separate stored chemicals by category, spaced to prevent reactions (i.e. acids, bases, flammables, etc.).
- 3.7 When chemicals that would present a serious hazard if spilled (ex. concentrated sulfuric acid) are hand carried for any distance, the container shall be placed in a safety bottle carrier.
- 3.8 Use appropriate personal protective equipment, such as gloves, safety glasses, face shields, etc., when working with hazardous chemicals or potentially infectious materials.
- Lab coats or other protective apparel shall be worn while working in the laboratory. In certain cases, disposable clothing, crime scene outerwear and/or specialized eye, ear and body protection are also available.
- 3.10 Keep chemicals and potentially infectious materials off desks and out of non-laboratory areas such as the break room.
- 3.11 The only acceptable areas for evidence are the front counters in the evidence receipt/return area, the evidence vault, evidence lockers, refrigerator/freezers designated for evidence storage, and in laboratories where evidence is analyzed. Exceptions: Latent lift cards, photographic evidence, firearms, and ammunition (fired or unfired) may be compared at the examiner's desk provided they are not biologically or chemically contaminated.
- 3.12 No oral pipetting of any substance is permitted.

- 3.13 No food will be stored in the analytical areas or in an evidence or chemical storage refrigerator or freezer.
- 3.14 Spilled chemicals shall be safely cleaned up immediately and disposed of properly (i.e. acids shall be neutralized prior to disposal).
- 3.15 Do not taste chemicals for identification.
- 3.16 Smell chemicals only when absolutely necessary and only by wafting a small amount of vapor towards the nose.
- 3.17 Cover all open cuts and sores before working with chemicals.
- 3.18 Avoid working alone in a laboratory if the procedures being conducted are hazardous. If you must work alone, notify someone of your whereabouts.
- 3.19 Know the location and operation of all eyewashes, fire extinguishers, first aid kits, showers, and fire alarms in the laboratory. Become familiar with all exits from the laboratory and the building.
- 3.20 Provide adequate ventilation so harmful levels of chemical vapors are not achieved.
- 3.21 When working with hazardous materials it is essential to know about their physical properties and their potential health hazards. Consult Laboratory Chemical Safety Summaries (located in Appendix B of "Prudent Practices in the Laboratory—Handling and Disposal of Chemicals" Copyright 1995), MSDS, reference books, periodicals, and other reliable resource materials.
- 3.22 Report all accidents and injuries to your laboratory manager and safety officer as soon as possible and follow the procedure for documenting the injury in section 2.1.2.2 of this manual. In addition, section 5.03 of the agency *Employee Handbook* contains additional policies for dealing with employee injuries, that must be followed when employees are injured on the job.
- 3.23 Practice good personal hygiene by not eating, drinking, smoking, chewing gum, or placing personal items in areas where evidence or chemicals are present. Keep items that may be contaminated, i.e. hands, pens, or other instruments, away from the face at all times.
- 3.24 Wash hands frequently. It is recommended hands be washed before leaving the laboratory. Protective apparel shall be removed before leaving areas where evidence is analyzed. Workers in the evidence receipt/return area where sinks are

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not closely available shall be provided disposable moist towelettes for use. It is recommended that hands be washed with soap and water as soon as possible.

- 3.25 The evidence receiving areas and all laboratory areas will be maintained in a clean and sanitary condition. These areas shall be cleaned and disinfected, where appropriate, with either freshly prepared 10% bleach solution or a comparable substitute. The counters in the evidence receiving area and in the laboratories where biohazards are processed shall be disinfected at least weekly.
- 3.26 Spills of liquid blood or other body fluids shall be cleaned up and the area shall be disinfected immediately. Keep in mind each time a piece of evidence is removed from its container and examined, the possibility of contamination of the hands and work area exists.
- 3.27 General clothing considerations: While in the laboratory, shoes with non-slip soles shall be worn (many dress shoes do not meet this criteria), open-toed sandals are not permitted, long hair and loose-fitting clothing shall be secured, and ties shall not be worn. When worn in the laboratory, State Police identification tags shall be secured inside of one's lab coat to prevent personal injury or contamination.

4 SAFETY TRAINING

- 4.1 The laboratory will provide educational materials to inform personnel regarding hazardous substances, harmful physical agents, and infectious agents.
- 4.2 Training will include the review of this manual to ensure knowledge of chemical hazards and blood borne pathogens. Training on blood borne pathogens shall be provided annually.
- 4.3 It is recommended the staff review the book entitled *Prudent Practices in the Laboratory Handling and Disposal of Chemicals (Copyright 1995)*, a publication of The National Research Council for general laboratory safety including basic electrical safety. A copy of this book shall be maintained in the library of each Forensic Services laboratory for use by the staff of the laboratory.
- **4.4** First Aid/CPR Training:
- 4.4.1 First Aid and CPR training is mandatory for any laboratory personnel who wear respiratory protective equipment during clandestine lab processing. This training will be conducted during working hours and at the laboratory's expense.
- 4.4.2 It is the laboratory's desire to have as many people trained in First Aid and CPR as possible. The laboratory will make this training available on an as-requested basis.
- 4.5 The Safety Officer shall provide safety briefings to the staff on various topics such as the location and use of all protective apparel and safety equipment in the laboratory.

5
EVACUATION AND RELOCATION PROCEDURES

- 5.1 The Safety Officer of each lab shall draft, post, and keep current an Emergency Evacuation and Relocation Plan for fires, bomb threats, utility failures, hazardous materials, and other emergencies. This plan may be as simple as a map of the facility showing evacuation routes and the location of a safe meeting place. Evacuation procedures shall be practiced annually and documented by the Safety Officer.
- 5.2 If the extent of the emergency may jeopardize other employees in the building, they will be notified to evacuate. Activate the fire alarm if appropriate.
- 5.1 If there is time and personal safety is not jeopardized, turn off all lights and unnecessary electrical appliances, and close the doors.
- 5.2 There shall be adequate and unobstructed emergency exits.
- 5.3 The Laboratory Manager, temporary designee, or Safety Officer shall be responsible to see that all laboratory occupants are safely evacuated. A suggested way to accomplish this is by a roll call at the post-evacuation meeting place.
- 5.4 In the event of a hazardous materials incident involving highly toxic materials, only trained clandestine laboratory responders shall take action to contain or clean the spill.
- No employee shall return to the evacuated area or building until the Lab Manager, temporary designee, or the Safety Officer, has established that it is safe to return to the area or building

6
PERSONAL PROTECTIVE APPAREL AND SAFETY EQUIPMENT

- 6.1 The proper use of specialized clothing and safety equipment will minimize or eliminate exposure to hazards associated with many laboratory operations.
- 6.2 The laboratory will provide and maintain a first aid kit(s), spill response equipment, fire extinguishers, emergency eye wash station(s), emergency shower(s), lab coats, protective gloves (i.e. non-latex, Viton, etc.), safety glasses, particulate masks, and hand washing facilities or a suitable substitute (i.e. anti-bacterial wipes). Other protective apparel and safety equipment may be provided and/or purchased with the approval of Laboratory Management. This equipment shall be maintained by the individual to whom it is issued (i.e. clan lab responder's APRs, Nomex suits, steel-toed boots, and ballistic vests).
- Exhaust hoods and other ventilation devices are available and shall be used to prevent exposure to airborne substances.
- 6.3.1 Fume hoods must have a continuous monitoring device
- Absorbent materials are available for chemical spills. Absorbent materials such as gauze pads and paper toweling are available for potentially infectious materials.
- 6.5 Specific cabinets are provided for the storage of flammable materials.
- Hand trucks with a securing chain will be used when moving compressed gas cylinders. Securing devices must be provided to hold cylinders in an upright position when in storage or in use.
- 6.7 Appropriate waste containers and bags are available and must be used for the disposal of sharps and infectious waste.
- Approved disinfectants, as described in chapter 19.3.4.1, are available in areas where potentially infectious materials are handled and examined.

LABORATORY SAFETY INSPECTIONS

- 7.1 The Laboratory Safety Officer is responsible to ensure laboratory safety equipment (emergency showers) is inspected at least annually. First aid kits shall be inspected and restocked if necessary, and the solutions in any wall-mounted emergency eye wash stations shall be replaced if they have expired.
- Monthly safety checks of fume hood performance, fire extinguishers, emergency lighting systems (if feasible), and emergency eye wash station functions, shall be performed and documented. This documentation shall be reviewed by the Safety Officer. An inspection of each biological safety cabinet and fume hood shall be performed annually by an approved provider.
- 7.3 Locations of emergency eye wash stations, fire extinguishers, spill response equipment, and first aid kits shall be marked with signs.
- 7.4 Unsafe conditions/areas and improper use (or non-use) of safety equipment will be brought to the attention of the individual(s) affected, the Safety Officer, and/or their supervisor.
- 7.5 The Safety Officer will assist in correcting problems that exist and/or meet with the necessary individual(s) to facilitate their correction.

8 HEALTH HAZARD MONITORING AND SURVEYING

- 8.1 The Hepatitis B vaccination series and a Tetanus shot are offered at no charge to all laboratory employees. Immunization titer level will be tested after completion of the Hepatitis B series if available. If a titer is not developed, an additional series or booster shot shall be provided as recommended by the ISP identified physician or other health care professional.
- 8.2 Employees who decline the provided vaccinations/booster shots/titer checks must sign the Vaccination Declination Form, located in the Appendix of this manual, indicating they understand the potential health consequences of not receiving the recommended vaccinations and titer checks.
- 8.3 A baseline hearing test will be provided to firearms examiners. Assessment of hearing levels will be conducted annually after a baseline is established. Blood lead levels will also be assessed annually for laboratory firearm examiners.
- Results of provided health tests will be made available to the individual at the time they are received and as requested by that individual.

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9 HANDLING AND USE OF FIREARMS, AMMUNITION, AND EXPLOSIVE DEVICES

- 9.1 Firearms, ammunition, and explosive devices will be handled as if they are functionally operational.
- 9.2 All firearms being submitted or handled will be treated as if they are loaded. A safety inspection will be performed after the weapon is received to ensure that the weapon is unloaded. Once an inspection of the weapon has been completed, a sticker shall be affixed indicating the date and initials of the person performing the inspection.
- 9.3 No firearm shall be loaded in the laboratory except in designated test-firing areas. Check the bore of the firearm for obstruction prior to loading.
- 9.4 Eye and ear protection will be worn when test firing
- 9.5 Test firing shall not be done alone.
- 9.6 There shall be proper ventilation during test fixing.
- 9.7 It is required that safety training be provided to any individuals who handle firearms evidence unless exempted from the training by the Major/Manager.

10 HANDLING AND USE OF ALTERNATE LIGHT SOURCES

- 10.1 Goggles or other appropriate filters will be used for most examinations to minimize radiation exposure from alternate light sources that may cause eye or skin damage. The operator and any observers must be provided with adequate protection.
- 10.2 Only individuals trained in their use will operate alternate light sources.
- 10.3 Never look directly into the light source aperture when the unit is enitting light.

 Care must be taken to protect the operator and observers from direct and reflected light.
- Do not move optical elements or shiny objects into or out of the light beam while the alternate light source is operating unless barrier filters are being used. Potentially blinding stray reflections may occur.

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11 ORDERING OF CHEMICALS

When it is determined that a chemical is not available in the laboratory, the 11.1 following steps shall be taken:

11.1.1 Order chemicals in the smallest quantity practical. Order solvents in the smallest quantity practical or what can be used in approximately 18 months.

11.1.2 Chemicals shall be ordered in non-breakable or break-resistant containers whenever possible.

11.1.3 Orders for chemicals not previously used and identified as carcinogens, reproductive toxins, and chemicals producing a high degree of chronic or acute toxicity, must be approved by the Laboratory Manager with the recommendation of the discipline leader. Consult a MSDS to determine if a chemical is an (substance). carcinogens to deferming the continuous carcinogens to deferming the carcinogens the carcinogens the carcinogens to deferming the carcinogens the carcinogens to deferming the carcinogens the ca embryo toxin (harmful to the embryo), mutagen (substance which can cause changes in the DNA of cells), and/or teratogen (substance which can cause birth defects). Consult the list of select carcinogens to determine if the chemical is a

The discipline leader must determine it sufficient control measures are available to minimize employee exposure and whether materials are

Anytime a procedural change is made, the discipline leader shall

12 CHEMICAL RECEIPT

- 12.1 Appropriate personal protective apparel and equipment shall be used when opening packages. Packages containing carcinogens, suspected carcinogens, reproductive toxins, allergens and highly toxic materials shall be opened in a hood or containment device where exposure will be minimized.
- Individual containers will be checked for content, breakage, or leaks, and intact label(s). Do not accept containers that are broken, leaking, unlabeled, having unreadable labels, or chemicals that were not ordered. Contact the supplier to have these items picked up. DO NOT take responsibility for the disposal of rejected chemicals and/or containers.
- 12.3 Chemical containers shall be marked with the date thetwere received.

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CHEMICAL STORAGE

- Carcinogens, mutagens, teratogens, embryo toxins, highly chronic toxins, and 13.1 highly acute toxins shall be stored in areas with restricted access and with special warning signs on the storage containers. Store breakable containers in chemically resistant travs.
- All chemicals must be stored in properly labeled, closed containers in a cool (if 13.2 possible) and dry location.
- Utmost care must be exercised to ensure that incompatible chemicals cannot come 13.3 in contact with each other. Chemicals in Column A are incompatible with the chemical directly across in Column B (table below) and shall be kept separate.

CLASSES OF INCOMPATIBLE CHEMICALS

Acids

Acids

Alkali and alkali earth metals (i.e. sodium)

Carbides

Hydroxides, oxides and peroxides

Oxidiz

Inorganic axides

Halogenated organics

Oxidizing agents *

Acids

Heavy metals and their salts

Oxidizing agents *

Inorganic cyanides

Inorganic azides

Acids, strong bases

Inorganic nitrates

Acids, metals, nitrites, sulfur

Inorganic nitrites

Acids, oxidizing agents *

Inorganic sulfides

Acids

Organic compounds

Oxidizing agents *

Organic acyl halides

Bases, organic hydroxy

compounds

Organic anhydrides

Bases, organic hydroxy

compounds

Organic halogen compounds

Aluminum metal

Organic nitro compounds

Strong bases

Powdered metals

Acids, oxidizing agents *

(*Oxidizing agents: Chromates, dichromates, halogens, halogenating agents peroxides, hydrogen peroxide, nitric acid, nitrates, chlorates, perchlorates, permanganates persulfates).

- 13.4 Quantities of flammable liquids in excess of one (1) liter shall be stored in a flammable liquid cabinet.
- 13.5 Refrigerated flammable liquids shall be stored only in explosion proof refrigerators.
- 13.6 Hydrofluoric acid needs to be stored in plastic. All other strong acids or strongly acidic solutions shall be stored in glass or stored in the container in which the chemical was received by the laboratory. Dilute acid solutions may be stored in plastic.
- 13.7 Liquids in quantities larger than one half (1/2) liter shall not be stored higher than eye level.
- 13.8 Return chemicals to their proper storage location after use.
- Whenever possible, substitute for highly carcinogenic chemicals mentioned in procedures with a safer alternative chemical if it will not effect the quality of the procedure (Example use toluene instead of benzene as a TLC solvent).
- 13.10 It is recommended that a complete list of all laboratory chemicals be compiled. It is recommended that a copy of this list be forwarded to the local fire department.
- 13.11 Chemicals that are no longer utilized shall be destroyed.
- 13.12 Chemicals in damaged or altered containers shall either be transferred to another container or destroyed. Prior to being destroyed they shall be packaged as necessary to prevent contamination of their surrounding environment and other chemicals. If their suitability for use is potentially compromised, they shall be destroyed.

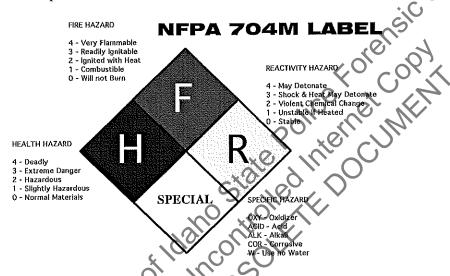
13.13 Store hazardous chemicals that have some likelihood for significant amounts to escape into the laboratory atmosphere in an operating hood or contained in some way.

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14 CHEMICAL AND REAGENT LABELING

- 14.1 Chemicals or reagents, not in the original shipping container, will be labeled with the following information:
- 14.1.1 Chemical or reagent name.
- 14.1.2 Appropriate NFR/NFPA hazard warnings. Reagents containing more than one chemical will be labeled with both the reagent name (i.e. Marquis) as well as the NFR/NFPA health, flammability and reactivity hazard warning of the most hazardous component (determined by information from the original shipping container, MSDS sheet or a list located in the Appendix). For example, if the most hazardous chemical in a reagent is sulfuric acid, the bottle shall be labeled with the NFR/NFPA warnings for sulfuric acid.

Example of an NFR/NFPA label:



- 14.1.3 Preparation date (and/or lot number if desired).
- 14.1.4 Expiration date (if appropriate).
- 14.2 Consumer products in their original containers (i.e. hand soap) are considered acceptably labeled.
- 14.3 Immediate-use containers, such as test tubes, beakers, graduated cylinders, need not be labeled, with the provision they are not used to store chemicals for longer than one day.
- 14.4 Employees with questions concerning the appropriate information to use on a label shall contact the Safety Officer. If desired, NFPA wall charts can be ordered for a quick reference guide to proper labeling.

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HANDLING AND USE OF CHEMICALS

- Each individual is responsible for knowing the physical properties and potential 15.1 health hazards of the chemical(s) they are working with. This information is found on the Material Safety Data Sheets (MSDS) available in the laboratory, on the internet, from the manufacturer, in the Chemical Safety Summaries in Prudent Practices in the Laboratory, Copyright 1995 (pages 235 - 415), or NFR/NFPA warnings located in the Appendix of this manual.
- 15.1.1 MSDS Internet sites:

http://hazard.com/msds/

http://www.ilpi.com/msds/index.html

- 15.1.2 Assume all chemicals are hazardous. Treat any mixture of chemicals as if it is more hazardous than the most dangerous component.
- 15.1.3 It is recommended that chemical spot tests be performed in a fume hood or a well ventilated area.

- 15.2.1 Corrosive: pH greater than 12 or less than 2

 15.2.2 Corrosive chemicals will imitate 15.2.2 Corrosive chemicals will irritate or burn the skin, eyes and respiratory tract. Severe exposure can cause permanent damage
- 15.2.3 Add acids or bases to water, not vice versa
- 15.2.4 Always pour the acid or base slowly to avoid splashing or superheating. If necessary, pour down a glass rod to prevent splashes and spills.
- 15.2.5 Always make sure there is a source of water in the area when working with corrosive chemicals in case there is an emergency.
- ORGANIC LIQUIDS 15.3
- 15.3.1 Organic liquids shall be used in a fume hood or a well ventilated area if there is a likelihood of contamination of the laboratory atmosphere. Small amounts of methanol, ethanol, or isopropanol may be used at the bench for analysis or to clean the laboratory.
- 15.4 FLAMMABLE LIQUIDS
- 15.4.1 Flash point is the temperature at which enough vapor is given off to form an ignitable mixture with air. Chemicals with a flash point of less than 100°F are classified as flammable.
- 15.4.2 Whenever flammable vapors are present there are fire and explosion hazards. It is the vapor not the liquid that can burn. Workers must be aware of the hazards of flammable liquids and must take positive measures to eliminate the risk of injury.
- 15.4.3 Open flames and smoking are prohibited in all areas where flammable liquids are stored, handled, or used.
- 15.4.4 Avoid prolonged or repeated skin contact.
- 15.4.5 Use non-sparking electrical equipment in areas where flammable liquids are stored, handled, and used.

- 15.4.6 Flammable solvent transfers shall be carried out only in fume hoods or in other areas where ventilation is sufficient to avoid a buildup of flammable vapor concentrations.
- 15.5 ALLERGENS, MUTAGENS, EMBRYOTOXINS/TERATOGENS, and CARCINOGENS
- 15.5.1 DEFINITIONS:
- 15.5.1.1 Allergen Causing allergic reaction.
- 15.5.1.2 Mutagen Causing a heritable change in the gene structure.
- Embryo toxin Poisonous to an embryo (without necessarily poisoning the mother).
- 15.5.1.4 Teratogen Producing a malformation of the embryo
- 15.5.1.5 Carcinogens: "...substance capable of causing cancer." "Compounds that are known to pose the greatest carcinogenic hazard are referred to as 'select carcinogens," Prudent Practices in the Laboratory Handling and Disposal of Chemicals, c. 1995 pages 40 and 43. Select carcinogens shall be the primary substances designated as a carcinogens. However, other substances may also be designated as carcinogens as appropriate.
- 15.5.2 PROTECTIVE MEASURES:
- Allergens, carcinogens, mutagens and embryotoxins/teratogens: Handle these substances in a hood if there is an opportunity for these substances to become airborne. Wear protective apparel to prevent skin contact. Employees shall be extremely cautious when using these hazardous chemicals.
- Immediately notify the Dab Manager and Safety Officer of all incidents of exposure and a determination will be made as to whether a medical evaluation is needed. Follow the procedure for documenting the exposure in section 2.1.2.2 of this manual.
- 15.6 REACTIVE CHEMICALS
- 15.6.1 Reactive chemicals are unstable chemicals that can react violently with other chemicals or water to produce heat or dangerous gases. Some reactive chemicals burn when exposed to air or water. Oxidizers may provide extra oxygen in a fire. Consult the NFR/NFPA information located in the Appendix of this manual to find out the reactivity of a specific chemical.
- 15.6.2 Prior to mixing chemicals of unknown compatibility, a compatibility test shall be performed by mixing a small quantity of the chemicals in a fume hood with the sash down as far as possible and while wearing proper protective equipment.
- 15.6.3 Store diethyl ether in the original container or in metal containers with non-metal lids. Use extreme caution when evaporating ether to dryness during analytical procedures. Be very cautious of EXPLOSIVE PEROXIDE FORMATION.
- 15.7 CHEMICALLY CONTAMINATED EVIDENCE

15.7.1 Evidence that has received a chemical treatment, that may leave a potentially dangerous chemical residue, must be marked with a warning label before being returned to the agency.

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16 CHEMICAL SPILLS: IMMEDIATE SPILL RESPONSE PROCEDURES

- 16.1 Evaluate If necessary, use the safety shower, eyewash and/or sink to decontaminate eyes and skin (flush thoroughly for 15 minutes).
- 16.2 Evacuate Clear employees from the area. Remove all sources of ignition if the spilled material is ignitable.
- 16.3 Contain Control and contain liquid spills using absorbent materials. Prevent liquids from traveling into sewage systems. Utilize appropriate personal protective apparel and safety equipment.
- 16.4 Clean-up Wear and use appropriate personal protective apparel and safety equipment. Collect spilled waste and absorbent material into a leak-proof closable container. Doubled, heavy-duty plastic bags are sufficient for most spills. Label and dispose of properly. Decontaminate areas where the spill occurred. Neutralize acid and base spills. Wash all potentially exposed skin areas thoroughly after completing the cleanup.
- Notify Notify the Lab Manager and Safety Officer as soon as possible that a spill has occurred. The Laboratory Manager will document the spill and evaluate if any further steps are necessary. Follow the procedure for documenting the spill in section 2.1.2.2 of this manual.

17

HAZARDOUS WASTE DISPOSAL

- 17.1 GENERAL CHEMICAL WASTE HANDLING
- 17.1.1 See page 160, section 7.D of *Prudent Practices in the Laboratory Handling and Disposal of Chemicals (copyright 1995)* for more in-depth procedures for laboratory-scale treatment of surplus and waste chemicals.
- 17.1.2 The proper disposal of chemical substances is the responsibility of all laboratory personnel.
- 17.1.3 All chemical waste containers must be labeled as "waste."
- 17.1.4 Care shall be taken to segregate incompatible substances.
- 17.2 CHEMICAL DISPOSAL TO THE SEWER SYSTEM
- 17.2.1 DO NOT discharge to the sewer any combustible, flammable or explosive solids, liquids or gases which by their nature or quantity will or are likely to cause, either alone or by interactions with other substances, a fire or explosion.
- 17.2.2 Strong acids and bases must be diluted with cold water and neutralized to pH 7. Once acids and bases are neutralized, they can be poured into the sewer system.
- 17.2.3 DO NOT discharge highly toxic, malodorous, or lachrymatory (causes eyes to water) chemicals down the drain (consult MSDS).
- BATTERIES: It is recommended that batteries be collected and appropriately disposed of, for instance at the local landfills when they are collecting hazardous chemicals and batteries.

18

COMPRESSED GASES

- 18.1 Cylinders will be stored in an upright position. Chain or otherwise secure them so they cannot be upset, fall, or strike each other.
- 18.2 Cylinders will be stored in the designated gas storage area when not in use. Whenever possible, store empty cylinders spaced away from the full cylinders.
- 18.3 Close all cylinder valves before moving, and when being stored (empty or full). Except when in use, the valve protection device must always be implace. Mark empty cylinders as empty.
- 18.4 Extreme care shall be used when handling compressed gas cylinders. Do not drop, jar, or expose them to temperatures above 50°C (120°F). All cylinders shall be handled as if they are full.
- 18.5 Do not use the valve or valve cap to lift or move cylinders. When moving a cylinder always use a hand truck with the chain secured. Do not roll cylinders.
- 18.6 Check cylinder labels before use. Color-coding is not a standardized means of identification.
- 18.7 Periodically check cylinders for rust or dents. Particularly check around the neck of the cylinder (including the screw threads) and at the bottom. If there is doubt about a cylinder's structural strength or the possibility of leakage contact the supplier for inspection, testing and/or replacement.
- 18.8 Use the fittings, gauges, and regulators suitable for the particular gas being used. Safety valves, gauges, and regulators shall be securely mounted and shall not be used if they are bent or damaged.
- 18.9 Protect cylinders from sparks, flames and contact with energized equipment.
- 18.10 Connections on cylinders shall be tightened or loosened carefully. Do not tamper with safety release devices or cylinder valves. If there is a problem with a cylinder, promptly notify the supplier indicating the type of problem and the cylinder's serial number. Follow the supplier's instructions and/or have the cylinder replaced.
- 18.11 To prevent contamination of instruments and gas lines, discontinue use of highpressure cylinders when the pressure approaches 30 psi. Do not bleed cylinders completely empty. Leave a slight pressure to keep contaminants out.

19 HANDLING AND STORAGE OF INFECTIOUS MATERIALS

"Universal Precautions" is an approach to infection control. According to the concept of Universal Precautions all human blood and body fluids are treated as if known to be infectious for HIV, HBV, and other blood borne pathogens. As a part of Universal Precautions, engineering controls and workplace practice controls are designed to minimize worker exposure to infectious materials and potentially infectious materials.

"Engineering Controls" are controls (e.g., biological safety cabinets, fume hoods, sharps disposal containers, etc.), that isolate or remove the blood borne pathogen hazards from the workplace by physical or mechanical means.

19.2.1 Hand washing facilities are located throughout the laboratory and are readily accessible to employees. When the provision of hand washing facilities is not feasible (i.e. crime scenes, evidence receiving areas, etc.) either an appropriate antiseptic hand cleanser in conjunction with clean cloth/paper towels, or antiseptic wipe will be provided.

19.2.2 Ventilation: Biological safety cabinets and fume hoods both offer protection for the laboratory worker from contamination by body fluids and other potentially infectious materials. In laboratory sections where contamination of the body fluids/infectious material is not a factor in the analysis (for example, the latent section when dealing with fingerprints in blood), fume hoods are an acceptable alternative to biological safety cabinets for working with body fluids and other potentially infectious material.

19.2.3 Waste containers used for the collection of contaminated infectious waste materials for disposal will be leak proof, closable, sealable, and marked as a biohazard.

19.3 "Work Practice Controls" are controls that reduce the likelihood of exposure by altering the manner in which a task is performed (e.g., use of personal protective equipment, one-handed needle recapping method).

19.3.1 Handling: Specimens of blood or other potentially infectious materials must be placed in a container, which prevents leakage during handling, processing, storage, transport and shipping.

- 19.3.2 Apparel: Cover and bandage all cuts, wounds and abrasions prior to gloving or covering with protective clothing and before performing any work-related duties involving infectious materials. Analysts will wear gloves, lab coats/gowns, or other protective clothing when handling items containing body fluids or other potentially infectious materials. Supervisors may determine additional precautions to be used.
- 19.3.3 Opening Blood Tubes: Blood tubes will be opened wearing gloves and lab coat and either:
- 19.3.3.1 Within a biological safety cabinet with the sash lowered, or

19.3.3.2	Within a fume hood with the sash lowered, or							
19.3.3.3	Wearing a face shield, or							
19.3.3.4	Wearing safety glasses and a facemask							
19.3.4 Decontamination: Employees will wash their hands and any other exp with soap and water, or flush mucous membranes with water immedia soon as feasible following contact of such body areas with blood or of potentially infectious materials. It is recommended that hands be wash leaving the laboratory.								
19.3.4.1	Contaminated work areas shall be cleaned using freshly prepared 10% bleach solution or a comparable substitute.							
Handl	s: Sharps, if submitted according to ISP Forensic Services Evidence ling Procedure (ISP Forensic Services Procedure Manual and Quality							
Manu	al Sect. 15.4 & 15.5), must not be bent, recapped, or removed except as below. Shearing or breaking of needles is prohibited.							
19.3.5.1	Contaminated needles and sharps will not be recapped or removed unless							
17.3.3.1	no alternative is feasible							
19.3.5.2	Such recapping or needle removal must be accomplished through the use							
	of a mechanical device or a one-handed technique.							
19.3.5.3	Sharps for disposal must be placed in containers that are:							
19.3.5.3.1	Puncture resistant.							
19.3.5.3.2	Marked either "Biohazard" or "Sharps."							
19.3.5.3.3	Leak-proof on the sides and bottom.							
19.3.5.3.4 Easily accessible to personnel and located as close as is feasible to								
the immediate area where sharps are used or can be reasonably								
	anticipated to be found.							
19.3.5.3.5	Maintained upright throughout use.							
19.3.5.3.6	Replaced routinely and not allowed to overfill.							
19.3.5.4	Broken glassware, that may be contaminated shall not be picked up							
	directly with the hands. It shall be cleaned up using mechanical means							
	such as a brush and dustpan, tongs, or forceps.							
19.3.5.5	Contaminated reusable sharps will be placed, immediately or as soon as							
100 C T	possible after use, into appropriate containers until properly disinfected.							
19.3.6 Laund	dry: Contaminated laundry shall be handled as little as possible with a							
	num of agitation. Do not allow sharps to be placed into laundry containers.							
19.3.6.1	Laundry contaminated with excessive amounts of blood or other							
	potentially infectious materials will be placed into a leak proof "biohazard" bag and the bag tied closed at the location where it was used,							
10263	then autoclaved. Employees who have contact with contaminated laundry must wear							
19.3.6.2	protective gloves and other appropriate personal protective equipment.							
	brotoctive Rioxog and other appropriate bergover brotoctive ederbingen							

STORAGE 19.4

19.4.1 Liquid blood and other liquid potentially infectious materials shall be refrigerated or frozen when they are not being handled or processed. Small amounts of residual blood remaining in sexual assault kits after analysis may be stored with other evidence from the case provided care is taken to assure tubes are closed and liquid will not leak from the kit.

19.4.2 Warning labels (i.e. "Biohazard" stickers) shall be affixed to containers used to store, transport, or ship blood or other potentially infectious materials. Warning labels shall also be affixed to containers of regulated waste and refrigerators and

and in an

20	
INFECTIOUS MATERIAL SPILLS:	IMMEDIATE SPILL RESPONSE
PROCEDURES	

- 20.1 Evaluate If necessary, use the safety shower, eyewash and/or sink to decontaminate eyes and skin (flush thoroughly for 15 minutes).
- 20.2 Evacuate Warn employees in the immediate area of the spill. If appropriate, clear employees from the area.
- 20.3 Contain Control and contain liquid spills using absorbent materials. Wear appropriate clothing and equipment (a minimum of Nitrile gloves or comparable and lab coat, gown or other protective outer garment). Goggles and facemask and/or shoe coverings may also be appropriate.
- 20.4 Clean up Use appropriate personal protective apparel and safety equipment. Collect spilled waste and absorbent material into an infectious waste container. Contaminated broken glass shall be cleaned up using mechanical means such as a brush and dustpan, tongs or forceps. Label and dispose of properly following waste procedures. Decontaminate areas where the spill occurred and the equipment used to clean up the spill with freshly prepared 10% bleach solution or a comparable substitute.
- Notify the Lab Manager and Safety Officer that a spill has occurred, how it was cleaned-up and the generation of any infectious waste as soon as possible. The Laboratory Manager will document the spill and evaluate if further steps are necessary such as an incident review. Follow the procedure for documenting the spill in section 2.1.2.2 of this manual.

21 HANDLING AND DISPOSAL OF INFECTIOUS WASTE

- 21.1 Liquid blood may be discharged to the sewer system only after autoclaving or by adding 10 ml undiluted bleach per 100 ml of blood. Urine may be discharged into the sewer system.
- 21.2 Solid infectious waste will be autoclaved and disposed of with other solid waste.
- 21.3 Infectious waste may also be removed by a contracted hazardous waste handler.
- Property of Idaho State Police Forensic Forensic State Police Forensic Forensic State Police Forensic For Decontaminate sinks and other work surfaces as soon as feasible. Decontaminate 21.4

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APPENDIX

VACCINATION DECLINATION FORM

I understand that due to my occupational exposure to blood or other potentially infectious materials I may be at risk of acquiring hepatitis B virus (HBV), and/or Tetanus. I have been given the opportunity to be vaccinated for the above listed infections at no charge to myself.

interious at no charge to mysem.
However, I decline thevaccination(s)/ recommended
pooster(s)/titer check at this time. I understand that by declining this treatment, I continue to be at risk of acquiring hepatitis B and Tetanus. If in the future I continue to
nave occupational exposure to blood or other potentially infections material, I understand that I can revoke this declination and receive the treatment at no charge to me.
Signature: Date
Printed Name:
Job Title:
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NFPA Table

NFPA Table					
Chemical Name	CAS#	H	F	R	Special
ACETALDEHYDE	75070	2	4	1	
ACETIC ACID, [GLACIAL]	64197	2	2	0	
ACETIC ANHYDRIDE	108247	2			
ACETONE	67641	1	3	()	
ACETONE CYANOHYDRIN	75865	3		2	
ACETONITRILE	75058	3			£
ACETOPHENONE	98862	1		D	<u> </u>
ACETYL CHLORIDE	75365		-	-	No water
ACETYLENE	74862.	1			
ACETYLENE TETRABROMIDE		3	1	0	
ACETYL PEROXIDE SOLUTION,[<=25% PEROXIDE]	110225	1		4	
r 10 10 = = 11 = 11 = 1	100732	Ŧ	-		
ACROLEIN, (INHIBITED)	107028	3		ij	
ACRYLAMIDE	79061	3	-	2	
ACRYLIC ACID	79107	3		2	
ACRYLONITRILE		4	-	Ľ	
	124049		1		
ADIPONITRILE	111693	4	-		
ALKYL ALUMINUM HALIDES					No water
ALLYL ALCOHOL	107186	3			
ALLYLAMINE	107119	3		<u> </u>	
ALLYL BROMIDE	106956	3			
ALLYL CHLORIDE	107051	3			
ALLYL CHLOROCARBONATE	2937500	3	-	<u>,</u>	
ALUMINUM ALKYL ÖHLORIDE		3	L		No water
ALUMINUM CHLORIDE, [ANHYDROUS]	<u> </u>			٠	No water
ALUMINUM PROSPHIDE	20859738	مسسا	<u>. </u>	2	No water
ALUMINUM POWDER, [METALLIC]	7429905	0		ĺ	
ALUMINUM TRIETHYL	97938	2	F	,	No water
AMMONIA, [ANHYDROUS]	7664417	3	1	े	
AMMONIUM BICHROMATE	<u> </u>	-	سنسا	-	Oxidizer
AMMONIUM FLUORIDE	12125018	<u></u>		سسة	Control of the Contro
AMMONIUM NITRATE, [NO ORGANIC COATING]	6484522		سنس		Oxidizer
AMMONIUM NITRATE, [ORGANIC COATING]		سنسخ			Oxidizer
AMMONIUM PERCHLORATE, [OXIDIZER]	7790989		<u></u>		Oxidizer
AMMONIUM PERMANGANATE		-	سسا	Same	Oxidizer
AMYL ACETATE	628637	1	ـــــ		· Control of the cont
AMYL ALCOHOL	71410	1	-		, <u> </u>
N-SEC-AMYL ALCOHOL		0		A	Construction of the contract o
TERT-AMYL ALCOHOL	75854	1	3)	

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ARSENIC TRIOXIDE, [SOLID]		2			
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BENZENE	71432	A	3	()	
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	7440417	3	1	1)	
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BORON TRIBROMIDE BORON TRIFLUORIDE BROMINE	10294334	4	o	2	No water
BORON TRIFLUORIDE	7637072	4	ō	i	
BROMINE			1		Oxidizer
	E	····			No Water; Oxidizer
	7787715	4	0	13	No Water; Oxidizer
	29756385	!			
BROMOPROPYNE	106967	4	-	/į	
1,3-BUTADIENE, [INHIBITED]	106990	2		7	
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TERT-BUTYL ALCOHOL	75650	1		E	Control of the contro
BUTYLAMINE	109739	3			, S
1,2-BUTYLENE OXIDE	106887	2	TOWN		
BUTYL ETHER	142961	2		****	
TERT-BUTYL HYDROPEROXIDE	75912		_		Oxidizer
	109728	3		-	No water
BUTYL LITHIUM	107711	2		i Č	Oxidizer
	107711		č	نسب	Oxidizer
TERT-BUTYL PEROXYACETATE	<u> </u>	1			
TERT-BUTYL PEROXYBENZOATE. ITECHNICALLY	614459	Ľ	<u>ار</u>	ľ	PAIGISEI

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PURE]	007074		~	L	Oxidizer
TERT-BUTYL PEROXYPIVALATE, [<= 77% IN SOLUTION]		0	-		Oxidizer
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BUTYRALDEHYDE		i www.	wood	-	
BUTYRIC ACID	<u></u>	3	-		<u> </u>
CALCIUM CARBIDE	75207	1		<u></u>	No Water
CALCIUM CHLORATE	10137743				
CALCIUM CYANIDE, [SOLID]	592018	3	U	Ľ	
CALCIUM HYPOCHLORITE MIXTURE, [DRY, WITH >39%	7778543	1	0	2	Oxidizer
AVAILABLE CHLORINE]	7440700		4	<u> </u>	No water
CALCIUM, METAL					No water
CALCIUM, METAL, [CRYSTALLINE]			ستلس	ca.	ino water
CALCIUM OXIDE	Samuel Company of the	1	The same		
CARBON DISULFIDE		2		٠	
CARBON MONOXIDE	Z	3			
CARBON TETRACHLORIDE	56235	3	-	•	
CHLORINATED PHENOLS/CHLOROPHENOLS	D, ~ \heartsuit_{λ}	3			
	7782505	3	0	(,)	Oxidizer
CHLORINE TRIFLUORIDE					No water; Oxidizer
CHLOROACETIC ACID, [SOLID]		3			
CHLOROACETONITRILE		3			
CHLOROACETYL CHLORIDE	79049	3		Z	
CHLOROBENZENE	108907	2	3	j)	
CHLOROETHANOL	107073	4	<u></u>	ł	
CHLOROFORM	67663	2			
CHLOROMETHYL METHYL ETHER, [ANNYDROUS]	107302	3	3	2	
CHLOROPENTANE, [FLAMMABLE LQUID]	29656631	1	3		
CHLOROPHENOLS, [LIQUID]	25167800	3	2	()	
CHLOROPHENOLS, [SOLID]	106489	3	1	ij	
CHLOROPICRIN, [KQUID]	76062	4	0	133	
CHLOROSILANE, [CORROSIVE LABEL]	13465786	3	3	9	No water
	13465786	3	3	2	No water
CHLOROSILANE, [FLAMMABLE, CORROSIVE LABELS]	13465786	3	3	7	No water
CHLOROSULFONIC ACID	7790945	3	0	7	No Water, Oxidizer
CHROMIC ACID, [SOLID]	7738945/ 11115745	3	0		Oxidizer
CHROMIC CHLORIDE	10025737	3	Ō	Ü	
CHROMIUM OXYCHLORIDE	14977618	3	ō	2	No Water
COLLODION	9004700	2	3	3	
CRESOL		3	-	e was	
M-CRESOL	108394	3		recent	The second secon
O-CRESOL	95487	3		٠.	<u></u>
P-CRESOL	106445	3		· ·	and the second s
CROTONALDEHYDE	4170303	3	·		
CUMENE, [FLAMMABLE LIQUID]	98828	2			
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	110827	1			
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	287923	1	_	_	
CYCLOPROPANE	75194	1		()	_0
DECABORANE	17702419			1	
DECANE		0			
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DIAMYLAMINE		3			
DIBORANE	19287457				
DIBUTYLAMINE		3			
					Oxidizer
DICHLOROACETYL CHLORIDE	79367	3	2	V	No water
DICHLOROANILINE	27134276	3	1		
O-DICHLOROBENZENE, [LIQUID]	95501	2	2	}	
DICHLOROETHYLENE	25323302	2	3	2	
1,2-DICHLOROETHYLENE	540590	2	3	2	
1,2-DICHLOROETHYLENE	156605	2	3	.;	
DICHLOROETHYL ETHER	111444	3	2	i	
DICHLOROMETHANE	75092	2	1	0	
1,2-DICHLOROPROPANE	78875	2	3		
	26952238	3	3	0	
	542756	3	3	0	A STATE OF THE STA
	4109960	3	4	Ī	No water
DIETHANOLAMINE	111422	1	·	0	
	96106	3	4	3	No water
DIETHYLAMINE	109897	3		ž	
	584021	1	2	0	
DIETHYLENE GLYCOL	111466	1		L	- Committee - Comm
DIETHYLENETRIAMINE	111400	3			
	84662	0			
DIETHYL SULFATE	64675	3			
DIETHYLZINC	557200			-	No water
DIISOPROPYLAMINE	108189	3			
DIISOPROPYL ETHER	108203	2			
DIKETENE	674828	3			
DIMETHYLAMINE, [ANHYDROUS]	124403	3		Acres 1	A CONTRACTOR OF THE PROPERTY O
DIMETHYLAMINE, [AQUEOUS SOLUTION]	124403	3			
DIMETHYLHYDRAZINE, [UNSYMMETRICAL]	57147	3			
DIMETHYL SULFATE	77781	4			
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	75183	2	Same?	ourse.	
1-, -, -, -, -, -, -, -, -, -, -, -, -, -	97029	3			
O-DINITROBENZENE	<u> </u>	3	1	4	
DINITROCHLOROBENZENE	97007/25 567673	3	1	4	
	25321146				
DINITROTOLUENE, [SOLID]	25321146	3	1	3	
DI-N-OCTYL PHTHALATE	117840	0	1	()	
1,4-DIOXANE	123911	2	3	1	Ca
DIPROPYLENE GLYCOL	25265718	0	1	()	60
DIVINYL BENEZENE, [COMBUSTIBLE LIQUID LABEL]		2	2	2	<i>(</i> 0
DIVINYL BENZENE, [FLAMMABLE LIQUID LABEL]	108576	2		X	
DIVINYL ETHER	109933	2	3	7	
EPICHLOROHYDRIN	106898	3	3	2	
ETHYL ACETATE	141786	1	3)	
ETHYL ACRYLATE, [INHIBITED]	140885	2	3	2	
ETHYL ALCOHOL	64175	0	3)	
ETHYLAMINE SOLUTION	75047	3	4	Į)	
N-ETHYLANILINE	103695	3	2	1)	
ETHYLBENZENE	100414	2	3	Ü	
ETHYLBUTANOL QUALITY OF THE PROPERTY OF THE PR	97950	2	3	4	
ETHYL BUTYL ACETATE	123660	1	2	ŋ	
ETHYL CHLORIDE	75003	2	4	()	
ETHYL CHLOROFORMATE	541413	3	3	ī	
ETHYLENE O O	74851	1	4	2	
ETHYLENE CYANOHYDRIN	109784	2	1	>	
ETHYLENEDIAMINE	107153	3	3	()	
ETHYLENE DIBROMIDE	106934	3	0		
ETHYLENE DICHLORIDE	107062	2	3	Ō	
ETHYLENE GLYCOL	107211	1	1	1)	
ETHYLENEIMINE, [INHIBITED]	151564	3	3	3	
ETHYLENE OXIDE	75218	2	4	3	
ETHYL ETHER	60297	2	4	1	
2-ETHYLHEXYL ACRYLATE	103117	2			
ETHYL METHYL ETHER	540670	2	4	ī	
ETHYL NITRITE	109955	2	4	序	
FLUOBORIC ACID	16872110	3	Ō	()	
FLUORINE	7782414	4	0	Ą	No Water; Oxidizer
FLUORINE, [CRYOGENIC LIQUID]	7782414	4	Ō	4	No Water; Oxidizer
FORMALDEHYDE SOLUTION, [FLASH POINT <= 141	50000	Ĺ,	2	1	
DEG F.; IN CONTAINERS <= 110 GALLONS]	50000	L	L	L	
FORMIC ACID	64186	3			THE RESIDENCE OF THE PROPERTY
FUEL OIL, [COMBUSTIBLE LIQUID LABEL]		·	2		The second secon
FUEL OIL, [DIESEL]			2		
FUEL OIL, [NO. 1]		0	2	D	
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FUEL OIL, [NO. 2]		0			
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FUEL OIL, [NO. 5]		0	-	-	<u></u>
FUEL OIL, [NO. 6]	***************************************	0	······································	-	
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	13450903				
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GERMANE		4			
GLYCERINE, [CRUDE, CONCENTRATED]	56815	1	1	Ĵ	5
HEPTANE	142825	1		أحسسا	
HEXANE	110543	1			
HEXANOL		1			
HYDRAZINE, [ANHYDROUS]	Contract of the Contract of th	3	******	Section 19	
HYDROBROMIC ACID, [> 49% STRENGTH]	10035106			-	
HYDROCYANIC ACID, [LIQUEFIED]		4			
	7664393			حصمت	
	1833740				
	10035106				
HYDROGEN CHLORIDE, [ANHYDROUS]	7647010	3	0	Ü	
	7647010	3	0	[]	
HYDROGEN CYANIDE, [ABSORBED]		4	4	7	
HYDROGEN FLUORIDE	7664393	4	0	Ī	
HYDROGEN PEROXIDE SOLUTION, [> 52% PEROXIDE)	7722841	2	0	1	Oxidizer
HYDROGEN BEROYIDE SOLUTION 40% TO 52%	7722841	2	0	į	Oxidizer
HYDROGEN, [REFRIGERATED LIQUID]	1333740	3	4	Ü	<u>arresono e internacional de la companya del companya del companya de la companya</u>
	?	3		<u> </u>	
		2			and the second s
ISOAMYL ALCOHOL	123513	1	ليتمسم		
ISO-BUTYL ACETATE	110190	1			
ISOBUTYRALDEHYDE	78842	2			
		2	2	Ü	
ISOPHORONE ISOPRENE		2			
	67630	1			
ISOPROPYLAMINE	75310	3			
ISOPROPYL FORMATE	625558	2			
ISOPROPYL PERCARBONATE, [STABILIZED]	1			CHANNE	Oxidizer
ISOPROPYL PERCARBONATE, [UNSTABILIZED]	105646				Oxidizer
KEROSENE	8008206	ō			
LEAD ARSENATE	3687318	2	Ę	۔۔۔۔	
In ter 1 to 7 to 1 to 1 to 1 to	7645252/	F	ŕ	r	
LEAD ARSENATE, [SOLID]		2	0	0	
LIQUEFIED NATURAL GAS	1,0,02,707	3	4	1	
LITHIUM ALUMINUM HYDRIDE	16853853			·	No water
	Z				No Water
LITHIUM HYDRIDE	1,000010	l ₂	۴	Ľ	INO AACIOI

		r	r	·	
LITHIUM METAL	7439932	3	2	L	No water
MAGNESIUM ALLOY, [WITH > 50% MAGNESIUM, PELLETS, TURNINGS]		0	1	ŀ	No water
MAGNESIUM ALLOY, [WITH > 50% MAGNESIUM, POWDER]		0	1		No water
MAGNESIUM GRANULES COATED, [PARTICLE SIZE >= 149 MICRONS]	7439954	0	1		No water
MAGNESIUM, METAL, (POWDERED, PELLETS, TURNINGS, OR RIBBON)	7439954	0	1		No water
MALEIC ANHYDRIDE	108316	3	1	Ī	\$
MERCURIC CYANIDE, [SOLID]	592041	3	0		
MESITYL OXIDE	141797	3	3	Ţ	
METHACRYLIC ACID	79414	3	2	D	
METHANOL	67561	T	3	Γ	
METHYL ACETATE	79209	1	3	Г	
METHYL ACRYLATE, [INHIBITED]	96333	2	3	Г	
METHYLAMINE, [ANHYDROUS]	74895	3			
METHYLAMINE, [AQUEOUS SOLUTION]	74895	3	4	Γ	
	8004099	3	—	ľ	
METHYL BROMIDE AND > 2% CHLOROPICRIN MIXTURE, [LIQUID]	0004099		Ľ	L	
METHYL BROMIDE, LIQUID, [WITH < 2% CHLOROPICRIN]	74839	3	1		
METHYL CHLORIDE	74873	2	4		
METHYLCYCLOPENTANE	96377	2	3	Γ	
METHYL DICHLOROSILANE	75547	3	3	Ī	No water
METHYL ETHER O O	115106	2	4	T	
METHYL ETHYL KETONE	78933	1	3		
METHYL ETHYL PYRIDINE O O	104905	2	2		
METHYL FORMATE	107313	2	4		
METHYL HYDRAZINE	60344	3	3	Ţ	
METHYL ISOBUTY RETONE	108101	2	3		
METHYL ISOCYANATE	624839	4	3	Γ	
METHYL METHACRYLATE MONOMER, [INHIBITED]	80626	2	, .	,	,
METHYL METHACRYLATE MONOMER, [UNINHIBITED]	80626	2	3	T	
METHYL ORTHOSILICATE	681845	3	3	Ī	
METHYLTRICHLOROSILANE	75796	3	3	Ī	No water
METHYL VINYL KETONE, [INHIBITED]	78944	3	3	Γ	
MONOETHANOLAMINE	141435	2	2	T	
MORPHOLINE	110918	Carrena Carre	3	ar years	
MORPHOLINE, AQUEOUS MIXTURE, [CORROSIVE LABEL]	110918	2	3		
		-	۳	۳	
MORPHOLINE, AQUEOUS MIXTURE, [FLAMMABLE	110918	2	3		
MORPHOLINE, AQUEOUS MIXTURE, [FLAMMABLE LIQUID LABEL]	110918 91203	<u> </u>	L	L	
MORPHOLINE, AQUEOUS MIXTURE, [FLAMMABLE LIQUID LABEL] NAPHTHALENE	91203	2	2	ł	
MORPHOLINE, AQUEOUS MIXTURE, [FLAMMABLE LIQUID LABEL]		2	2		

			T	/
NATURAL GAS, [REFRIGERATED LIQUID]		3 <u>k</u>	and the	
NICKEL CARBONYL	13463393			
NICKEL CATALYST, [DRY]		2 3		}
NITRIC ACID, [<=40%]		3 [)
NITRIC ACID, [> 40%]				Oxidizer
NITRIC ACID, [FUMING]				Oxidizer
NITRIC OXIDE	10102439	سأسسند		Oxidizer
P-NITROANILINE, [SOLID]	·	3		
NITROBENZENE, [LIQUID]	98953	3 2	2	
NITROCELLULOSE, [COLLOIDED, GRANULAR OR				
FLAKE, WET WITH >= 20% ALCOHOL OR SOLVENT, OR		2 3	3	
BLOCK, WET WITH >= 25% ALCOHOL]			d	
NITROCELLULOSE, [COLLOIDED, GRANULAR OR		21)	
FLAKE, WET WITH >= 20% WATER]	(C	\vdash	╬	
NITROCELLULOSE, [WET WITH >= 30% ALCOHOL OR	900479 0	2 (3	,
SOLVENT	9004700	N.	,	
NITROCELLOLOSE, [WET WITH >= 20% WATER]	121733/1	H	7	<u></u>
NITROCHLOROBENZENE	00005	3	N	
		3		
	79243	1		
11111021111112		3 (
	2	عاسسا	um Su	Oxidizer
		3 (
NITROGEN, [REFRIGERATED LIQUID]		, ,	,	Oxidizer
NITROGEN TETROXIDE, [LIQUID]	10544726	쒸	4	Oxiuizei
NITROGEN TETROXIDE, [LIQUID] NITROGEN TRIOXIDE		ارا	۱	Oxidizer
MITROGEN INIONIDE	7	ľ	1	
NITROMETHANE	75525	T	3	í l
4-NITROPHENOL	£	3		
NITROPROPANE	A	T.	Ł	
2-NITROPROPANE	79469	T		<u></u>
NITROTOLUENE	1	3		
P-NITROTOLUENE	<u> </u>	3	mus y	
OCTANE	111659	ō		
OCTANOL	111875	1		The second secon
	1	o		The second secon
OIL, [MINERAL]		0		
OILS, EDIBLE: COCONUT		0	COMPANY NO.	1000
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OILS, EDIBLE: LARD	<u> </u>	0		
OILS, EDIBLE: PALM		0	والعطوم	the Commence of the Commence o
OILS, EDIBLE: PEANUT		0		
OILS, EDIBLE: SOYA BEAN	 	اــــا		
OILS, EDIBLE: TUCUM		0		1.)
OILS, EDIBLE: VEGETABLE	<u> </u>	0		
OILS, MISCELLANEOUS: LINSEED	<u> </u>	0	1	

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PROPARGYL ALCOHOL	DDODANE	58	Ļ		_	
PROPIONALDEHYDE					_	
PROPIONIC ACID 79094 2 2 1		Ł			÷	
PROPIONIC ACID, [SOLUTION] 79094 2 2 3 5 5 5 5 5 5 5 5 5		<u> </u>			_	
PROPIONIC ANHYDRIDE		<u> </u>	أحسو		0	
PROPYL ACETATE					U)	
N-PROPYLAMINE			احسسا	muse		
PROPYLENE 115071 1 4 1		<u> </u>	است	_	1	
PROPYLENE GLYCOL 575566 0 1 1 1		<u> </u>			J	<u> </u>
PROPYLENE OXIDE				4]	
PROPYL NITRATE		<u></u>		7	4	
PROPYL TRICHLOROSILANE PYRIDINE 110863 2 3 3 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						.
PYRIDINE PYROXYLIN PLASTIC, RODS, SHEETS, ROLLS, OR TUBES SILANE SILANE SILANE, (4-AMINOBUTYL)DIETHOXYMETHYL- SILICON CHLORIDE SILICON TETRAFLUORIDE SILICON TETRAFLUORIDE SILICON TETRAFLUORIDE SILICON CHLORITE SODIUM CHLORATE SODIUM CHLORATE SODIUM CYANIDE, [SOLID] SODIUM CYANIDE, SOLUTION SODIUM CYANIDE SOLUTION SODIUM DICHLORO-S-TRIAZINETRIONE, [DRY CONTAINING > 39% AVAILABLE CHLORINE] SODIUM FLUORIDE, [SOLID] SODIUM HYDROGEN SULFITE, [SOLID] SODIUM HYDROGEN SULFITE, [SOLID] SODIUM HYDROXIDE, [DRY SOLID, FLAKE, BEAD] SODIUM HYDROXIDE, [LIQUID] SODIUM HYDROXIDE, [LIQUID] SODIUM HYDROXIDE, [LIQUID] SODIUM HYDROXIDE, [LIQUID] SODIUM, [METAL] SODIUM PERCHLORATE SODIUM PERCHLORATE SODIUM PERCHLORATE SODIUM PERCHLORATE SODIUM PERCHLORATE SODIUM PERCHLORATE SODIUM PERCAIDE SODIUM POTASSIUM ALLOY, [LIQUID] 111135812 3 3 2 No water		<u> </u>		all and		JOXIAIZET I
PYROXYLIN PLASTIC, RODS, SHEETS, ROLLS, OR TUBES SILANE SILANE, (4-AMINOBUTYL)DIETHOXYMETHYL- SILICON CHLORIDE SILICON TETRAFLUORIDE SILICON TETRAFLUORIDE SILICON TETRAFLUORIDE SODIUM CHLORATE SODIUM CHLORATE SODIUM CHANIDE, [SOLID] SODIUM CYANIDE, [SOLID] SODIUM CYANIDE SOLUTION SODIUM DICHLORO-S-TRIAZINETRIONE, [DRY CONTAINING > 39% AVAILABLE CHLORINE] SODIUM FLUORIDE, [SOLID] SODIUM HYDROGEN SULFITE, [SOLID] SODIUM HYDROXIDE, [DRY SOLID, FLAKE, BEAD] SODIUM HYDROXIDE, [LIQUID] SODIUM HYDROXIDE, [LIQUID] SODIUM HYDROXIDE, [LIQUID] SODIUM, [METAL] SODIUM PERCHLORATE SODIUM PERCHLORATE SODIUM PERCHLORATE SODIUM PERCYLORATE SODIUM POTASSIUM ALLOY, [LIQUID] 111135812 3 2 No water						
SILANE			2	<u>კ</u>		
SILANE 7803625 2, 4 ; SILANE, (4-AMINOBUTYL)DIETHOXYMETHYL- 3037727 3, 2 ; SILICON CHLORIDE 16026047 3 ; 0 ; No water SILICON TETRAFLUORIDE 7783617 3 ; 0 ; No water SODIUM CHLORATE 7756999 1 ; 0 ; Oxidizer SODIUM CHLORITE 7758192 1 ; 1 ; I ; Oxidizer SODIUM CYANIDE, [SOLID] 143339 3 ; 0 ; SODIUM CYANIDE SOLUTION 143339 3 ; 0 ; No Water; Oxidizer SODIUM DICHLORO-S-TRIAZINETRIONE, [DRY CONTAINING > 39% AVAILABLE CHLORINE; 2893789 0 ; 3 ; No Water; Oxidizer SODIUM FLUORIDE, [SOLID] 7681494 2 ; 0 ; No water SODIUM HYDROGEN SULFITE, [SOLID] 7631905 3 ; 1 ; No water SODIUM HYDROXIDE, [DRY SOLID, FLAKE, BEAD] 1310732 3 ; 0 ; No water SODIUM PERCHLORATE 7601890 2 ; O ; Oxidizer SODIUM PERCHLORATE 1313606 3 ; O ; Oxidizer SODIUM PERCHLORATE 1313606 <t< td=""><td></td><td>(O) '</td><td>2</td><td>3</td><td>2</td><td></td></t<>		(O) '	2	3	2	
SILANE, (4-AMINOBUTYL)DIETHOXYMETHYL- 3037727 3 2 1 SILICON CHLORIDE 10026047 3 0 2 No water SILICON TETRAFLUORIDE 7783611 3 0 7 No water SODIUM CHLORATE 1775099 1 0 7 Oxidizer SODIUM CHLORITE 7758192 1 1 1 0 Oxidizer SODIUM CYANIDE, [SOLID] 143339 3 0 7 Oxidizer SODIUM CYANIDE SOLUTION 143339 3 0 7 No Water; Oxidizer SODIUM DICHLORO-S-TRIAZINETRIONE, [DRY CONTAINING > 39% AVAILABLE CHLORINE] 2893789 0 3 7 No Water; Oxidizer SODIUM FLUORIDE, [SOLID] 7681494 2 0 7 No water SODIUM HYDROGEN SULFITE, [SOLID] 7631905 3 1 7 No water SODIUM HYDROXIDE, [DRY SOLID, FLAKE, BEAD] 1310732 3 0 7 No water SODIUM, [METAL] 7440235 3 3 7 No water SODIUM PERCHLORATE 7601890 2 0 7 Oxidizer SODIUM PEROXIDE 1313606 3 0 7 Oxidizer SODIUM POTASSIUM ALLOY, [LIQUID] 11135812 3 3 7 No water		7002625				
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SODIUM POTASSIUM ALLOY, [LIQUID] 11135812 3 3 2 No water	SODIUM PERCHLORATE	7601890	2	ō	1	Oxidizer
	SODIUM PEROXIDE	1313606	3	οĺ	1	Oxidizer
	SODIUM POTASSIUM ALLOY, [LIQUID]	11135812	3	3	2	No water
SODIUM POTASSIUM ALLOY, [SOLID] 11135812 3 3 / No water		11135812	3 j	3 I	2	No water
SODIUM SULFIDE, [ANHYDROUS] 1313822 3 1 1			ۇسس		-	and the second s
SODIUM SULFIDE, [HYDRATED, WITH >= 30% WATER] 1313822 3 1 i				2 سس	اسسه	
SODIUM SUPEROXIDE 12034127 3 0 1 Oxidizer				₹	أسسا	
STIBINE 7803523 4 4 2	STIBINE	7803523	4	4	ij.	
STYRENE MONOMER, [INHIBITED] 100425 2 3 2	STYRENE MONOMER, [INHIBITED]	·	وسسو	ww f	***************************************	
SULFUR CHLORIDE (MONO) 10025679 2 1 1						
SULFUR DIOXIDE 7446095 3 0 0	**************************************	A STATE OF THE PARTY OF THE PAR			-	
SULFURIC ACID 7664939 3 0 2 No water						

SULFURIC ACID, [SPENT]	7664939	3	n	Г	No water
		2		ē	
SULFUR, [MOLTEN] SULFUR MONOCHLORIDE	12771083		·	Z	
SULFUR, (SOLID)		1		i	
SULFURYL CHLORIDE		3		-	
	1181200	-	-	Ľ	
TALLOW	100101	0	<u> </u>	L	
TETRACHLOROETHYLENE	127184	2		L	
TETRAETHYL LEAD, [LIQUID]		3			
TETRAFLUOROETHYLENE, [INHIBITED]		2			S
TETRAHYDROFURAN	·	2		L	
TETRAHYDRONAPHTHALENE	119642	1			
TETRAMETHYLLEAD	75741	3	354	F., JI.	
THIONYL CHLORIDE					No water
TIN TETRACHLORIDE, [ANHYDROUS]	7646788	3	0		
TIN TETRACHLORIDE, [HYDRATED]	10026069	3	0	П	
TITANIUM TETRACHLORIDE	7550450	3	Ō	7	No Water
TOLUENE	108883	2	3		
TOLUENE-2,4-DIISOCYANATE	584849	3	_	>	
O-TOLUIDINE :: C	95534	5	_	ij	
TRIBUTYLAMINE		3		£	
1,1,1-TRICHLOROETHANE	71556	2		š	
1,1,2-TRICHLOROETHANE	79005	3			
TRICHLOROETHYLENE	79016	2	_		
TRICHLOROETHYLSILANE	115219	3	3	5	No Water
MONO-(TRICHLORO) TETRA-(MONOPOTASSIUM		r	٢	ſ	and the second s
DICHLORO)-PENTA-S-TRIAZINETRIONE, [DRY WITH >		3	0	7	No Water; Oxidizer
39% AVAILABLE CHLORINE)		L	L	L	
TRICHLOROSILANE	10025782	3	4	2	No water
TRICHLORO-S-TRIAZINETRIONE, [DRY, CONTAINING >	87901	2	٨	Γ,	Oxidizer
39% AVAILABLE CHLORINE]			L	L	OXIGIZOI
TRIETHANOLAMINE	102716	2		٠	
TRIETHYLAMINE	121448	2	3	U	
TRIETHYLENE GLYCOL	112276	1	Z	*****	
TRIISOBUTYL ALUMINUM	100992	3	4	3	No water
TRIMETHOXY SILANE	2487903	3	3	2	
TRIMETHYLAMINE, [ANHYDROUS]	75503	3	4	0	
TRIMETHYLAMINE, AQUEOUS SOLUTION	75503	3	4	9	
TRIPROPYLALUMINUM	102670	3	4	5	No water
	8006642/	7	3		
TURPENTINE	9005907	Ĺ		L	
VANADIUM TETRACHLORIDE	7632511		Lucia	£	No water
VINYL ACETATE	108054	2	حسسة	2	
VINYL CHLORIDE	75014		4	,	
VINYLIDENE CHLORIDE, [INHIBITED]	75354	2	1	5	
VIA LIBERT OFFICERED, [III III III III	1/ 0004	Ľ	尸	L	

WAXES: PARAFFIN	0 1 3
XYLENE	1330207 2 3 🔯
M-XYLENE	108383 2 3 🗇
O-XYLENE	95476 2 3 🗦
P-XYLENE	106423 2 3 1
XYLIDINE	1300738 3 1 🗈
2,6-XYLIDINE	87627 3 1
ZINC CHLORATE	10361952 1 0 Oxidizer
ZINC PHOSPHIDE	1314847 3 3 1
ZINC PHOSPHIDE, [CONC. > 10%]	1314847 3 3 1
ZIRCONIUM TETRACHLORIDE, [SOLID]	10026116 3 0 No Water

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