Management of Chemicals in Science Laboratories

Introduction

This packet contains APS Guidelines for Management of Chemicals in science departments and is being provided to the science teachers in the K-8, Middle and High Schools. It contains information required by the Colorado Department of Public Health and Environment (CDPHE), Consumer Protection Division, outlined in the document Rules and Regulations Governing Schools in the State of Colorado. Additional information about the rules and regulations may be obtained by visiting the Division of Environmental Health & Sustainability’s web page at www.cdphe.state.co.us/cp/.

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Management of Chemicals in Science Laboratories

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Management of Chemicals in Science Laboratories

Acquisition of Chemicals

To promote a safe and healthy work environment for all building occupants, the District has established strict policies and regulations for the purchase of hazardous materials. In addition to following the District’s regular purchasing procedures, an employee must reference three chemical lists published by the CDPHE; Appendix A - Prohibited Chemicals List, Appendix B - Restricted Chemicals List, and Appendix B2 - Restricted Chemicals Teacher Demonstration Use Only List. These lists can be found in Attachment C of this packet. See below for further explanation of each list.

Appendix A - Prohibited Chemicals List - Items on this list may not be stored or used in the schools.

Appendix B - Restricted Chemicals List - Items on this list are allowed, although some have a quantity limit indicated in parenthesis after the chemical name. A round yellow sticker and a CDPHE Appendix B label will be placed on these containers to identify them.

Appendix B2 - Restricted Chemicals Teacher Demonstration Only List - Items on this list may only be used by the instructor for demonstration purposes and have quantity limits in parenthesis after the chemical name. Students are not allowed to handle these chemicals. A round red sticker and a CDPHE Appendix B2 label will be placed on these containers to identify them as demonstration use only. See Appendix B2 List.

Further clarification has been provided by CDPHE regarding prohibited and restricted chemicals list when they are listed as an ingredient in a product or were part of a solid object or equipment that are used for demonstration or other instructional purposes.

DOES THE PROHIBITED AND RESTRICTED LIST APPLY TO CHEMICALS LISTED AS INGREDIENTS ON A PRODUCT LABEL?

The rulemaking process did not evaluate these chemicals when they occur as an ingredient in a product generally available to the public or were part of solid objects or equipment. Since adoption of the prohibited and restricted chemical lists, questions have been raised concerning the applicability to products where the chemical may occur as an ingredient but is not the sole active ingredient, or may be in low concentrations. The applicability of the lists to the occurrence of the chemicals in solid objects used for instructional purposes such as rock and mineral specimens and glazes on ceramics has also been questioned. Products that contain chemicals included in the prohibited or restricted lists that are not in a nearly pure form (or dilutions) are not subject to those lists. However, such products are subject to the regulations in “Chapter 6 – Equipment or Supplies” or other portions of “Chapter 8 - Laboratory, Industrial, Art, and Vocational Hazards” regarding safe management and use.
**DOES THE PROHIBITED AND RESTRICTED LIST APPLY TO CHEMICALS THAT ARE INCORPORATED INTO SOLID OBJECTS USED FOR DEMONSTRATION PURPOSES?**

The prohibited or restricted chemical lists do not apply where the chemicals are incorporated into solid objects that are used for demonstration or other instructional purposes. These types of instructional supplies are regulated under other provisions of “Chapter 8 - Laboratory, Industrial, Art, and Vocational Hazards.” Some instrument check sources, and mineral and rock specimens may contain uranium, arsenic, or other chemicals on the prohibited or restricted lists. Such solid materials should be used under controlled conditions and following appropriate procedures regarding safe handling and controlled storage.

Other solid objects that have been noted as containing prohibited or restricted chemicals are porcelain or pottery that have glazes containing uranium or chromium pigments, demonstration devices, such as science test kits and cloud chambers, and similar objects. These materials are not subject to the prohibition; however, such materials should be covered by written procedures for safe handling and controlled storage.

Under no circumstances are donated hazardous materials to be received unless prior written approval for such materials has been given by the Environmental Compliance Branch.

The following should be evaluated prior to purchasing hazardous materials:

- Is there a need for the material?
- Is it currently on the chemical inventory?
- What are the hazards?
- Is there a non-hazardous material or a less hazardous substitute?
- Are the quantities being purchased justifiable?
- What is the stability and shelf life of the hazards?
- Is suitable and sufficient storage available?
- Does the material require special disposal considerations?
- Is the material on the Appendix A or Appendix B2 product list?

When new chemicals are received, it is important to immediately open the packaging and inspect the container. Containers should be received in good condition, sealed, properly labeled, and with a material safety data sheet. Immediately place the date received label, ChemLog label and CDPHE labels on the container and place it in the appropriate storage shelf, and write the quantity and date received of the new product on the chemical inventory sheet posted in the storeroom. If containers are found to be leaking or damaged, call the Environmental Compliance Branch for assistance with spill response and disposal. If the containers have missing labels, unreadable labels, or do not have a material safety data sheet, call the supplier to request that the appropriate label or material safety data sheet be sent.

For additional information see Aurora Public Schools District policy and regulation EBAB and EBAB-R.
General Rules and Procedures

Wear appropriate clothing and use personal protective equipment (PPE), such as safety glasses, when working in the laboratory to avoid unnecessary exposure to the chemicals.

Know the location and use of all safety equipment (fire extinguisher, eye/face wash station, safety shower, fire blankets, chemical spill kits, emergency numbers and phone, etc).

Know the evacuation procedures in case of an emergency or safety drill during a laboratory experiment; containers must be closed, gas valves turned off, fume hoods and any electrical equipment turned off.

Follow safe use and handling of glassware procedures. Never use glassware that is scored, chipped or broken. Dispose of glassware in appropriate container.

Ensure defective equipment is not used until repaired or replaced and unsafe condition is corrected.

No eating or drinking in chemical areas.

Follow good housekeeping in all laboratory areas. Clean up work areas and return equipment and supplies to their proper place. Clean up any debris or mess, another person may not know what the white powder on the counter contains.

Inventory and Tracking

Many products stored and used in a school contain chemicals that can have health and safety hazards associated with them. When these products are identified, stored, and handled properly these hazards can be reduced. Chemical inventories are one measure taken as part of a comprehensive program used to manage chemicals used in the District.

Science Chemical Inventories
The science chemical inventory is a list of all hazardous products used and stored in the science area at each site. The Environmental Compliance Branch is responsible for determining safe storage, federal and state chemical reporting requirements and developing a Material Safety Data Sheet (MSDS) tracking system from the chemical inventories.

The science chemical storerooms have been thoroughly inspected and the potentially unstable chemicals were identified and removed. The remaining chemicals were inventoried, segregated, labeled and stored according to the ChemLog storage plan (see the Chemical Storage section for further explanation). Science chemical inventory lists for each K-8, Middle, and High School were developed. The inventories include site, room number, name of product, quantity of product, physical state, container type, storage color code, and storage location. The inventory list is organized by storage color code with the products alphabetized within each color grouping. The list is posted in the
chemical storeroom at each site. The Environmental Compliance Branch maintains the science chemical inventory database and updates the information on an annual basis.

**Annual Inventory Updates**

In order to maintain your inventory, document quantities used or purchased on the science chemical inventory list (see sample on next page). It is not necessary to document small quantities used (like a few milliliters or grams), but if most of the product is used or if any more is ordered, these changes must be documented. The science chemical inventory list provides spaces for teachers to indicate quantity used or quantities purchased for each product. The Environmental Compliance Branch visits each site annually to remove the previous list, update the database, generate and post the new chemical inventory list.

In case of an emergency, it is imperative that an up-to-date inventory of all chemicals stored in the storage area be maintained and readily available in two locations, one in the storeroom and one in the science department office.
<table>
<thead>
<tr>
<th>Cabinet 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Red</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Container Type</th>
<th>State</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camphor</td>
<td>1 oz</td>
<td>2.50 Fluid Ounc</td>
</tr>
<tr>
<td>Cedarwood Oil</td>
<td></td>
<td>0.50 Fluid Ounc</td>
</tr>
<tr>
<td>Clove Oil</td>
<td></td>
<td>4.00 Fluid Ounc</td>
</tr>
<tr>
<td>Glycerine</td>
<td>500 ml</td>
<td>1.00 Liters</td>
</tr>
<tr>
<td>Immersion Oil</td>
<td></td>
<td>4.00 Fluid Ounc</td>
</tr>
<tr>
<td>Mineral Oil</td>
<td></td>
<td>1.00 US Gallons</td>
</tr>
<tr>
<td>Peppermint Oil</td>
<td></td>
<td>3.50 Fluid Ounc</td>
</tr>
</tbody>
</table>
Material Safety Data Sheets

Material Safety Data Sheets (MSDS) contain information about the nature of the hazards of the products you work with so you can protect yourself. The following is a brief list of important product information found on a MSDS:

- Physical properties and health effects that make it dangerous.
- The level of personal protective equipment needed.
- Immediate first aid if you are overexposed to the product.
- Handling and storage procedures for day-to-day operations.
- How to respond to accidents involving the product.

Each science chemical that is stored or used at your site must have a MSDS. The law requires the manufacturer and/or distributor to supply MSDSs with each order. Make sure you know how to use the APS online MSDS program so you can find MSDS’s quickly and make use of them in an emergency.

The Environmental Compliance Branch is responsible for maintaining the MSDS database. Additional MSDSs for products on the science chemical inventory can be obtained by contacting the Environmental Compliance Branch. MSDSs for products NOT on the science chemical inventory list must be obtained through the manufacturer/distributor of that product. Copies of the MSDS must be forwarded to the Environmental Compliance Branch and the product information must be added to the science chemical inventory.

MSDS Online Program

The Environmental Compliance Branch has developed a new process to maintain the MSDS information for products used in the District. Traditionally, we had provided hard copies of MSDS information for each site. We have now upgraded to a web-based program available to all APS employees, called MSDSpro. To access MSDSpro, please follow the instructions below:

To access MSDS Sheets:

- Either scroll over the MSDS/Inventory tab at the top and click on “find an MSDS” and then click on “MSDS search” or click on MSDS program (web-based) under “What we do.”
- You can search a specific product by typing it into the “search by MSDS” box. From the list, click on product name and the MSDS will appear.
- You can also search by location to see products in a specific room at a site.
- Click on print icon to print the MSDS.
Chemical Storage

Science areas can use a plethora of different chemicals on a daily basis. Due to the extensive inventories used in these areas, storage of these chemicals requires special consideration.

**Chemical Storage in Stockrooms**

Dedicated storage areas are used as a means to securely and safely store science chemicals. Science chemical storage areas must be secured and accessible only to authorized personnel. No eating, drinking, or storage of consumable food in the prep areas. Refrigerators used to store chemicals and lab specimens must not be used to store consumable food and must be labeled storage of non-consumables only.

Intense chemical reactions can occur when incompatible chemicals are stored together. Chemicals should be stored and organized by compatible chemical groups. APS currently uses ChemLog, a chemical storage program developed especially for school districts to segregate and store science chemicals safely.

**Compressed Gas Cylinder Storage**

Gas cylinders must be stored in a place to prevent them from falling and the cylinder valve stem must be protected. The cylinder must be chained to a solid object, such as a wall or cabinet and cylinder cap must be in place except when the cylinder is in use and connected to a regulator.

**Dedicated Storage Cabinets**

Specific hazard groups must not only be segregated into compatibility groups, but also must be stored in special cabinets designed to address that specific hazard. Flammable and corrosive liquids are required to be stored in separate cabinets designed especially for those chemicals.

- Flammable liquids (Red A, Blue B, Dark Green C) must be stored in a dedicated UL rated flammable cabinet.
- Base liquids (Purple R) must be stored in a dedicated UL rated corrosive cabinet.
- Organic acid liquids (Dark Brown H) and inorganic acids liquids (Light Brown X) must be stored in a dedicated UL rated corrosive cabinet.

**The ChemLog Storage System**

The ChemLog system segregates the chemicals into compatibility groups and uses a color-coded labeling system to ensure continued safe storage. The storage system further segregates the chemicals into organic and inorganic groups. Although, some groups may be the same color, they will not have the same letter and the inorganic labels have a white stripe on them. The organic groups are A - M and the inorganic groups are M - X. The groups are also arranged to be compatible with groups on either side, for example A’s can be stored alongside B’s, which can be alongside C’s, etc. The chemicals are segregated into their compatibility grouping and then assigned a label. All of the same groupings are stored together, and are in alphabetical order within that group. For example all of the light green M’s are stored together on a shelf in alphabetical order.

Attachment B is a science chemical directory which determines the compatibility group.
and color code for a new product and indicates if it is a restricted, demonstration use only or prohibited chemical. Additional labels are available through the Environmental Compliance Branch for new chemicals that are ordered.

The compatibility groups are:

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Compatibility Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red A</td>
<td>Organic Flammables</td>
</tr>
<tr>
<td>Blue B</td>
<td>Organic Flammables</td>
</tr>
<tr>
<td>Dark Green C</td>
<td>Organic Hydrocarbons</td>
</tr>
<tr>
<td>Light Blue D</td>
<td>Epoxy/Isocyanates/Pesticides</td>
</tr>
<tr>
<td>Purple E</td>
<td>Organic Sulfides</td>
</tr>
<tr>
<td>Orange F</td>
<td>Organic Phenols/Cresols</td>
</tr>
<tr>
<td>Gray G</td>
<td>Organic Azides/Peroxides</td>
</tr>
<tr>
<td>Dark Brown H</td>
<td>Organic Acids</td>
</tr>
<tr>
<td>Light Green M</td>
<td>Organic /Inorganic Miscellaneous</td>
</tr>
<tr>
<td>Red N</td>
<td>Charcoal/Sulfur/Phosphorus</td>
</tr>
<tr>
<td>Dark Blue O</td>
<td>Inorganic Salts/Etc</td>
</tr>
<tr>
<td>Dark Green P</td>
<td>Inorganic Nitrates/Nitrites/Azides</td>
</tr>
<tr>
<td>Light Blue Q</td>
<td>Metals</td>
</tr>
<tr>
<td>Purple R</td>
<td>Inorganic Oxides/Hydroxides</td>
</tr>
<tr>
<td>Orange S</td>
<td>Inorganic Arsenates/Cyanides</td>
</tr>
<tr>
<td>Gray T</td>
<td>Inorganic Carbides/Sulfides</td>
</tr>
<tr>
<td>Dark Brown U</td>
<td>Borates/Chromates/Permanganates</td>
</tr>
<tr>
<td>Pink V</td>
<td>Peroxides/Chlorates/Perchlorates</td>
</tr>
<tr>
<td>Yellow W</td>
<td>Inorganic Chlorides</td>
</tr>
<tr>
<td>Light Brown X</td>
<td>Inorganic Acids</td>
</tr>
</tbody>
</table>

Container Information and Codes

<table>
<thead>
<tr>
<th>Unit of Measure</th>
<th>Container Type</th>
<th>Physical State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lb = Pound</td>
<td>Bg = Bag</td>
<td>S = Solid</td>
</tr>
<tr>
<td>Oz = ounce</td>
<td>Bx = Box</td>
<td>L = Liquid</td>
</tr>
<tr>
<td>Gl = Gallon</td>
<td>Cn = Can</td>
<td>G = gas</td>
</tr>
<tr>
<td>Qt = Quart</td>
<td>Cyl = Cylinder (Compressed gas)</td>
<td>O = Other (describe)</td>
</tr>
<tr>
<td>Pt = Pint</td>
<td>Fd = Fiber drum</td>
<td></td>
</tr>
<tr>
<td>L = Liter</td>
<td>Gb = Glass bottle</td>
<td></td>
</tr>
<tr>
<td>Ml = Milliliter</td>
<td>Pb = Plastic bottle</td>
<td></td>
</tr>
<tr>
<td>Kg = Kilogram</td>
<td>Pd = Plastic drum</td>
<td></td>
</tr>
<tr>
<td>G = Gram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg = Milligram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tr = Trace</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Container Identification Labeling Requirements
Secondary Containers - Chemicals that are transferred from the original container into another container and will be used for more than one day must be properly labeled. All secondary containers used for storage must be labeled with the following:

- Name of product.
- Manufacturer’s name, address, and a 24-hour emergency phone number.
- Any physical or health hazards.
- Any necessary protective equipment or precautions necessary to work with the product.
- Date
- *Special Note: ALWAYS replace torn or damaged labels.*

**Working Solutions** - When working solutions are made, the container must be labeled with the following:

- Name of product.
- Date solution was prepared.
- Concentration of solution.

Lab Experiment Solutions - Special consideration must be given to laboratory experiments designed for students to identify different unknown solutions. In these situations labeling the container with the product name would defeat the purpose of the lab. Different identification systems may be used, however when these solutions are stored, a key to the identification system must be posted in the storeroom. For example, the container may be identified as “Solution A”, therefore, the key would indicate Solution A is 1N Sodium Hydroxide.
Disposal of Hazardous Materials

There are many items encountered everyday in the APS District which could be considered hazardous waste. Currently, there are several laws which dictate proper disposal procedures of these items. As a result, the Environmental Compliance Branch is responsible for all hazardous waste disposal to ensure the District follows proper and consistent disposal methods.

District Hazardous Waste Collection Facility
APS Facilities is the District collection site for hazardous waste and is registered with the State of Colorado as a small quantity generator. All other sites in the APS District are registered as conditionally exempt small quantity generators. A small quantity generator is a facility which generates more than 100 kilograms and less than 1000 kilograms of hazardous waste and no more than 1 kilogram of acutely hazardous waste in a calendar month. A conditionally exempt small quantity generator is a facility which generates no more than 100 kilograms of hazardous waste and no more than 1 kilogram of acutely hazardous waste in a calendar month. The District collects, consolidates, and properly disposes of all hazardous waste. Depending on the waste involved, the waste is recycled, landfilled, or incinerated.

District Sites - Science Departments Waste Disposal
Non-hazardous waste disposal – Most science departments have at least one sink that is plumbed to an acid neutralization tank. It is acceptable to drain dispose of laboratory wastes that are considered non-hazardous or of low toxicity. Do not put combinations of chemicals down the drain at one time. Rinse a solution down the drain with a ten-fold dilution of water, then rinse the second solution down the drain with a ten-fold dilution of water. If your site has an acid neutralization tank, it is acceptable to drain dispose of weak concentrations of corrosive chemicals (such as acids and bases). Never drain dispose of acids and bases at the same time in order to prevent an adverse chemical reaction. The following is a list of substances which should NEVER be drain disposed (See Attachment E for sink disposal guidelines):

- Hydrocarbons or phenolic compounds.
- Flammable or explosive substances, such as gasoline, kerosene, naphtha, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides.
- Non-water soluble products, such as vacuum pump oil, mineral oils, gels, solids
- Cyanide substances
- Tetrachlorethene
- Heavy Metals – arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, silver or zinc.
**Hazardous waste disposal** – If, or when, a site has any of the following items, please notify the Environmental Compliance Branch for removal and proper disposal.

- Unused Chemicals – Containers in poor condition or use of the chemical has become obsolete due to curriculum change and can no longer be utilized.

- Lab experiment by-products – If there are mixtures of hazardous products left over from lab experiments, place the remaining mixture or any by-products produced as a result of the experiment in a container with a lid. The waste must be in a closed container and the contents identified, so it can be transported safely.

- Lab specimens – Any dissected or un-useable lab specimens should not be discarded in the trash. Lab specimens are considered to be a biological hazardous waste, regardless of whether they were preserved in formaldehyde, or another packing fluid. The packing fluid must be *decanted* from the specimens prior to disposal. When finished with the lab specimens, place the specimens in a red biohazardous waste bag (use multiple bags if necessary but bags must not weigh more than 25 pounds), and the packing fluid back into the original container. If needed, the Environmental Compliance Branch will provide additional containers for separating the specimens from the packing fluid.

- Broken Glass Container – Place broken glassware into the “broken glass box” provided. When the container is full, contact Environmental Compliance Branch for disposal. We will remove the full container and replace it with an empty container.
Spill Response

Each chemical storage area is equipped with a spill kit containing floor dry and baking soda. Refer to the appropriate section below for specific types of spills. See Attachment A for the Emergency Information Posting which list MSDS information, poison control information, and Environmental Contact Information.

Non-Corrosive/ Non-Flammable Material Spill

In the event of an accidental release of a chemical, remove any other chemicals located near or around the spilled material, if possible to do so safely, and place floor dry on the spilled chemical.

If, however, the spilled material exhibits a reacting characteristic such as the production of gas, vapor, heat evolution, bubbling, etc., do not attempt to remove any chemicals in the area. Proceed to evacuate the immediate area. The subsequent steps will be followed in situations involving a spill:

- Evacuate all personnel from the incident area.
- Restrict access to the spill area.
- Notify the Principal/Site Administrator. The Principal/Site Administrator will:
  - Notify APS Security and stress that there is a suspected hazardous material spill.
  - APS Security will notify the appropriate Emergency Response personnel.
- Do not attempt to clean up or further disturb the material.

Flammable Material Spill

In the event of an accidental release of a chemical, remove any other chemicals located near or around the spilled material, if possible to do so safely, and place floor dry on the spilled chemical.

Be aware if the spill is of a known flammable material, there are certain actions that should be taken in order to stabilize the incident area to ensure the emergency situation does not intensify. A flammable material spill presents a potentially volatile environment in which a fire/explosion could result. The subsequent steps are to be followed in the event of a flammable material spill:

- Evacuate all personnel from the incident area.
- Restrict access to the spill area.
- Notify the Principal/Site Administrator. The Principal/Site Administrator will:
  - Notify APS Security and stress that there is a suspected hazardous material spill.
  - APS Security will notify the appropriate Emergency Response personnel.
- Restrict ignition sources, such as open flames.
- Do not key your two-way radio in the incident area. Doing so could create an ignition source.
- Do not touch the light switch. Turning the lights on or off could create an ignition source.
source.

- Do not attempt to clean up or further disturb the material.

**Acid/Base Spill**

In the event of an accidental release of a chemical, remove any other chemicals located near or around the spilled material, if possible to do so safely, and place floor dry on the spilled chemical. If the spill involves an acid, place baking soda on the spill material to neutralize.

In the event of an acid or base spill, there are certain precautions that should be taken to stabilize the situation. Acids and bases are corrosive materials. Corrosives have a tendency to react violently with each other and with other materials to produce hazardous gases and sometimes, extreme heat, so it is important to isolate the area. Personnel must avoid the incident area due to the nature of acids/bases being highly irritating and corrosive to skin. The subsequent steps will be followed in situations involving corrosive material spills:

- Evacuate all personnel from the incident area.
- Restrict access to the spill area.
- Notify the Principal/Site Administrator. The Principal/Site Administrator will:
  - Notify APS Security and stress that there is a suspected hazardous material spill.
  - APS Security will notify the appropriate Emergency Response personnel.
- Instruct the custodian to have the building ventilation system turned off to prevent exhausting the vapors throughout the building.
- Restrict access to the incident area.
- Do not attempt to clean up or further disturb the material.
Science Safety Equipment

Eye Protection
Eye protection which meets the American National Standards Institute (ANSI) 1979 Z87.1 Standard must be worn by all students participating in, observing, or in close proximity to any experiment or activity which could result in eye injury. Eye protection glasses, goggles, face shields, and similar eye protection devices shall be issued clean and properly sanitized and stored in a protected place.

Eye Wash Fountains/Safety Showers
The first response (prior to medical treatment) for a student or teacher who has hazardous material in their eyes or on their faces is to flush the affected area with water to dilute chemicals, wash off debris, and irrigate the eyes. It is very important to hold the eyelids open and roll the eyeballs so that water can flow over all surfaces of the eyeballs and in the folds surrounding them.

An eye/face wash station that can wash both eyes simultaneously is required in every science laboratory and preparation room where hazardous materials are used. The eyewash station must be visibly marked, unobstructed for immediate use and flushed weekly.

Other Safety Equipment
Additional safety equipment found at your site includes; fume hoods, safety blankets, fire extinguishers, ground fault circuit interrupter (GFCI), goggle sanitizers, emergency master gas valve shut off, emergency electrical shut off and a spill kit. All of these are inspected by the Environmental Compliance Branch annually; however teachers should inspect equipment and flush eyewash weekly. (See Attachment D for Equipment Testing Log)
Emergency Posting Information
Emergency Information Posting

The following information must be posted in areas using hazardous chemicals.

Use the following first aid procedures for accidental poisoning or exposure from chemicals:
- Take the person to the nurse’s office immediately;
- The nurse should contact the poison control center and they will need to know:
  ✓ Age of the victim
  ✓ Name of the poison/chemical ingested
  ✓ Amount of material ingested or degree of exposure
  ✓ Time of ingestion or exposure
  ✓ Condition of victim
  ✓ Any first aid that has been performed

Refer to the Material Safety data Sheet (MSDS) of the chemical ingested for additional information and basic first aid procedures and health hazards of the chemical. Use the District program, MSDSpro to access the MSDS. To access MSDSpro, please follow the instructions below:

To access SDS Sheets:
✓ Go to the APS Environmental website: http://env.aurorak12.org/
✓ Either scroll over the MSDS/Inventory tab at the top and click on “find an MSDS” and then click on “MSDS search” or click on MSDS program (web-based) under “What we do.”
✓ You can search a specific product by typing it into the “search by MSDS” box. From the list, click on product name and the MSDS will appear.
✓ You can also search by location to see products in a specific room at a site.
✓ Click on print icon to print the MSDS.

If you cannot locate the SDS immediately, call the Environmental Compliance Branch office at 303-326-2115 ext. 28682 for further assistance.

Poison Control Center Information
Rocky Mountain Poison and Drug Center
Emergency Phone Number: 800-222-1222 or 303-739-1127
Address: 990 Bannock Street, Fourth Floor, Denver CO 80204

Environmental Compliance Branch - Web Page: http://www.apsnet/env
Rita Lesser  lilesser@aps.k12.co.us  x28685  Cell 303-437-8671
Bonnie Walker  bawalker@aps.k12.co.us  x28681  Cell 303-587-6979
Gene Bonahoom  ejbonahoom@aps.k12.co.us  x28673  Cell 720-218-3546
Kimberly Howard  kahoward@aps.k12.co.us  x28682

District Science Coaches
Melissa Botteicher  mdbotteicher@aps.k12.co.us  Cell 303-886-7533
Jennifer Nassar  janassar@aps.k12.co.us  Cell 720-341-3489
Attachment B

ChemLog Science Chemical Directory
## ChemLog Science Chemical Directory

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Attachment C

CDPHE Chemical Lists

Appendix A – Prohibited Chemicals

Appendix B – Restricted Chemicals

Appendix B2 – Restricted Chemicals
Demonstration Use Only
## Appendix A – Prohibited Chemicals

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# Appendix A – Prohibited Chemicals

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## Appendix A – Prohibited Chemicals

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## Appendix A – Prohibited Chemicals

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## Appendix A – Prohibited Chemicals

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## Appendix A – Prohibited Chemicals

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<td>Dimethyl Magnesium</td>
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<td>NFPA Health</td>
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<td>Isoamyl Alcohol</td>
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<td>Magnesium (ribbon)</td>
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<td>7439-95-4</td>
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<tr>
<td>Name</td>
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<td>Ni(NO3)2*6H2O</td>
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<td>Octyl Alcohol</td>
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<td>Pentyl Alcohol (Amyl)</td>
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<td>71-41-0B</td>
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<td>Petroleum Ether (500 ml limit)</td>
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## Appendix B2 – Restricted Chemicals
(Demonstration Use Only)

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(*) Indicates those compounds that have peroxide forming potential that must be addressed in the written chemical management plan.
Attachment D

Safety Equipment Log
## Equipment Testing Documentation Log

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<td>Safety Showers</td>
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<td>Master Gas Valve</td>
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<td>Electrical Shut Off</td>
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<td>Fire Extinguisher</td>
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<td>Fire Blanket</td>
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<td>Eyeware Sanitizer</td>
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<td>Spill Kit</td>
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<td>Emergency Posting Info</td>
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<td></td>
<td>APS Science Storage Plan</td>
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</tbody>
</table>

* Use one sheet for each room.
Hazardous wastes cannot be discarded down the drain. Collect hazardous wastes in compatible containers. Properly label the container. Call the Environmental Compliance Branch if you have any waste disposal questions. (Ext. 28682)

The following categories of waste CANNOT be sink disposed:

1. **FOODSTUFFS** or provisions that could spoil or rot.

2. **FLAMMABLE SOLVENTS**
   Alcohols, alkane aromatics, ketone, xylene, toluene, ether, acetone, acetonitrile, pyridine (aqueous alcohol solutions of less than 20% concentration may be sink disposed, collect higher concentrations for disposal as needed.)

3. **HALOGENATED SOLVENTS**
   Methylene chloride, chloroform, carbon tetrachloride, trichloroethane, freons and halothanes.

4. **TOXIC CHEMICALS AND SOLVENTS**
   Acrylamide monomer, phenol, formamide, cyanides, sulfides, carcinogens and mutagens.

5. **HEAVY METALS**
   Arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, zinc, and other metals.

6. **NON-WATER SOLUBLE WASTES**
   Vacuum pump oil, mineral oil, kerosene, gels and solid wastes.

7. **INFECTIOUS OR BIO HAZARDOUS WASTES**
   Human tissue, lab specimens, infectious agents or pathogens (properly disinfected liquid wastes are acceptable for sink disposal)

8. **RADIOACTIVE MATERIALS**
   Consult with the Environmental Compliance Branch (303-367-3000 ext. 28685) before disposing of any radioactive waste material.
Attachment F

Miscellaneous Items

Appendix 1 – Top 40 Hit List, Problem Chemicals in Schools

Appendix 2 – 100 Most Common Explosive and Shock Sensitive Materials
# TOP 40 HIT LIST

CHEMICALS THAT HAVE BEEN FOUND TO BE A PROBLEM IN MANY SCHOOLS.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>flammable liquid; corrosive</td>
</tr>
<tr>
<td>Acetyl Chloride</td>
<td>dangerous fire risk; violent with water</td>
</tr>
<tr>
<td>Adipoyl Chloride</td>
<td>corrosive</td>
</tr>
<tr>
<td>Aluminum Chloride, Anhydrous</td>
<td>violent with water</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>respiratory hazard; severely corrosive</td>
</tr>
<tr>
<td>aniline</td>
<td>Severe ly toxic</td>
</tr>
<tr>
<td>Antimony Pentachloride</td>
<td>corrosive; reacts with organics</td>
</tr>
<tr>
<td>Antimony Trichloride</td>
<td>known carcinogen; severely toxic</td>
</tr>
<tr>
<td>Arsenic Trioxide</td>
<td>known carcinogen</td>
</tr>
<tr>
<td>Benzene</td>
<td>heating releases phosgenes; reacts violently with water, alcohol, oxides.</td>
</tr>
<tr>
<td>Benzoyl chloride</td>
<td>flammable and explosive; reacts violently with bases</td>
</tr>
<tr>
<td>Benzoyl Peroxide</td>
<td>toxic by inhalation and ingestion; oxidizer; reacts violently with organics</td>
</tr>
<tr>
<td>Benzy alcohol</td>
<td>stenol agent; lachrymator</td>
</tr>
<tr>
<td>Bromine</td>
<td>known carcinogens</td>
</tr>
<tr>
<td>Butyric Acid</td>
<td>evolves acetylene with water; fire risk</td>
</tr>
<tr>
<td>Cadmium, Cadmium Salts</td>
<td>severe fire risk</td>
</tr>
<tr>
<td>Calcium carbide</td>
<td>carcinogen</td>
</tr>
<tr>
<td>Carbon Disulfide</td>
<td>peroxidizable; flammable</td>
</tr>
<tr>
<td>Dioxane</td>
<td>alleged carcinogen</td>
</tr>
<tr>
<td>Ether</td>
<td>readily decomposes with almost anything</td>
</tr>
<tr>
<td>*Formaldehyde</td>
<td>severely corrosive</td>
</tr>
<tr>
<td>*Hydrochloric Acid</td>
<td>alkali metal; flammable solid</td>
</tr>
<tr>
<td>Hydrogen Peroxide, 30%</td>
<td>flammable solid</td>
</tr>
<tr>
<td>Lithium, metal</td>
<td>oxidizer; dangerous in combination with organic material</td>
</tr>
<tr>
<td>Magnesium, metal, powder</td>
<td>severely and subtly toxic</td>
</tr>
<tr>
<td>Magnesium Perchlorate</td>
<td>strong oxidizer</td>
</tr>
<tr>
<td>Mercury Nitric</td>
<td>contact with organics results in explosion</td>
</tr>
<tr>
<td>Acid Perchloric</td>
<td>flammable solid; self-ignition possible evolving dangerous phosphorous pentoxide</td>
</tr>
<tr>
<td>Phosphorus, yellow/white</td>
<td>when dry, an explosive</td>
</tr>
<tr>
<td>Picric Acid Potassium</td>
<td>peroxidizable; flammable solid</td>
</tr>
<tr>
<td>Potassium/Sodium Cyanide</td>
<td>severely toxic</td>
</tr>
<tr>
<td>Potassium Permanganate</td>
<td>oxidizer; explodes on sudden heat</td>
</tr>
<tr>
<td>Sebacoyl Chloride</td>
<td>corrosive; eye irritant</td>
</tr>
<tr>
<td>Sodium</td>
<td>flammable solid</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>decomposes explosively; toxic</td>
</tr>
<tr>
<td>Sodium Peroxide</td>
<td>explosion/fire risk in combination with powdered metals and organics; oxidizer</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>severely corrosive</td>
</tr>
</tbody>
</table>

*fumes of hydrochloric acid and formaldehyde, when mixed, form the known carcinogen chloromethoxychloromethane.
ONE HUNDRED MOST COMMONLY FOUND EXPLOSIVE AND SHOCK-SENSITIVE MATERIALS

1. Acetylides of heavy metals
2. Aluminum ophorite explosive
3. Amatol
4. Ammonal Ammonium
5. nitrate Ammonium
6. perchlorate Ammonium
7. picrate Ammonium salt
8. lattice Butyl/tetral
9. Calcium nitrate
10. Copper acetylde
11. Cyaniic triazide
12. Cyclotrimethylene trinitramine
13. Cyclotetramethylenetetramine
14. Dinitroethyleneurea
15. Dinitroguanidine
16. Dinitrophenol
17. Dinitrophenolates
18. Dinitrophenyl hydrazine
19. Dinitrosorcinol
20. Dinitrotoluene
21. Dipicryl sulfone
22. Dipicrylamine Erythritol
23. tetrinitrate Fulminate of
24. mercury Fulminate of
25. silver Fulminating gold
26. Fulminating mercury
27. Fulminating platinum
28. Fulminating silver
29. Gelatinized nitrocellulose
30. Guanyl nitrosamine guanyl tetrazene
31. Guanyl nitrosamine guanylideny hydrazine
32. Heavy metal azides
33. Hexanite
34. Hexanitrodiphenylamine
35. Hexanitrostilbene
36. Hexogen
37. Hydrazinium nitrate
38. Hydrazoic acid
39. Lead azide
40. Lead mannite
41. Lead mononitrosorcinate
42. Lead picrate
43. Lead salts
44. Lead staphnate
45. Trimethyllethane
46. Magnesium ophorite
47. Mannitol hexanitate
48. Mercury oxalate
49. 50. 51. Mercury tartrate
52. Mononitrotoluene Nitrat
53. carbohydrate Nitrat
54. glucoside
55. Nitrat polyhydryc alcohol Nitrogen
56. trichloride Nitrogen tri-iodide
57. Nitroglycerine
58. Nitroglycde Nitroglycol
59. Nitroguanidine Nitroparaffins
60. Nitronium perchlorate
61. Nitrourea
62. Organic amine nitrates Organic
63. nitrates Organic peroxides
64. Picramic acid Picramide
65. Picratol
66. Picric acid Picryl
67. chloride Picryl flouride
68. Polynitro aliphatic compoinds
69. Potassium nitroaminotetrazole
70. Silver acetylde Silver
71. azide Silver sthyphnate
72. Silver tetrazene Sodatol
73. Sodium amatol
74. Sodium dinitro-ortho-cresolate
75. Sodium nitrate-potassium nitrate explosive mixture
76. Sodium picramate Syphric
77. acid Tetrazene
78. Tetranitrocabazole Tetrytol
79. Trimonite Trinitroanisole
80. Trinitrobenzene
81. Trinitrobenzoic acid
82. Trinitrocresol
83. Trinitro-meta-cresol
84. Trinitrozaphthalene
85. Trinitrophenetol
86. Trinitrophenolglucinol
87. Trinitroresorcinol Tritonal
88. Urea nitrate

Note: Other materials such as ETHYL ETHER, ISOPROPYLEther, DIOXANE, TETRAHYDROFURAN, just to name a few, form dangerous PEROXIDES. In glass bottles, peroxides may be visible as distinct crystals; in metal cans, particularly ones that have started to deteriorate, PEROXIDATION should be presumed. These materials can be more EXPLOSIVE than commercial explosive products. USE EXTREME CAUTION!