



**OAK GROVE SCHOOL DISTRICT**

**DAVIS**

**CHEMICAL HYGIENE**

**PROGRAM**



## CHEMICAL HYGIENE PLAN

### INTRODUCTIONS

This document describes the Chemical Hygiene Plan for Oak Grove School District as required by OSHA's Occupational Exposure to Hazardous Chemicals in Laboratories Standard. 29CFR1910.1450.

In order to comply with the Standard, Oak Grove School District has established a plan to ensure our workplace is capable of protecting employees and students from Health Hazards associated with Hazardous Chemicals in the laboratory, and capable of keeping exposures below the Permissible Exposure Limits (PEL) specified in 29CFR1910 Subpart "Z". Questions regarding this plan should be directed to James Moreno, M&O Department.

This plan is made readily available to the employees of Oak Grove School District, employee representatives and upon request to the Maintenance and Operations Department. The plan is located on the Oak Grove School District's internet.

A review and evaluation of this program is conducted on an annual basis by the Safety Committee and updated as necessary.

The person responsible for implementation of this plan is James Moreno, M&O Department. The assigned Chemical Hygiene Officer is Oscar Ortiz, Director, ESD. The District's Safety Committee will review and monitor compliance.

The committee comprised of the following personnel:

- Chief Business Official
- Chief Operations Officer
- Manager of Maintenance and Operations
- Manager of Operations

- Director of Human Resources
- RTW Specialist/HR
- Director of Business
- Purchase/Finance Technician
- Teacher
- Payroll Technician
- Director of ESD
- Coordinator HR
- District Nurse
- Executive Secretary
- Executive Division Secretary
- STW
- Principal
- SIG
- AFSCME
- CSEA
- Risk Management Consultant

## **STANDARD OPERATING PROCEDURES**

For laboratory work at Oak Grove School District which involves the use of Hazardous Chemicals, standard operating procedures (SOP) have been addressed in order to reduce the potential Safety and/or Health Hazards caused by such use. These procedures include various engineering control measures such as maintenance procedures for these engineering controls including testing proper function of such equipment, the use of appropriate Personal Protective Equipment (PPE) and maintenance of such equipment.

The specific procedures implemented by Oak Grove School District are as follows:

## **LABORATORY ACTIVITIES**

Laboratory activities and demonstrations represent an essential part of science teaching. Written materials and pictures can convey an enormous amount of information, but students fully understand the concepts related to science when they participate in or observe learning activities involving laboratory experiments and demonstrations. The Science Safety Handbook for California Public Schools will be followed during the operations of the science lab.

- Science teachers should advocate safety and have the information necessary to minimize risk.
- Students have a responsibility to themselves and their classmates to learn and observe safety practices in all participatory science activities.
- Education Code Section 51202 names what should be taught in most laboratory classes, including the following practices, skills, or areas of knowledge:
  - Proper eye-safety practices
  - Proper handling of glassware and glass tubes
  - Proper setup and handling of electrical equipment
  - Safe use of chemicals in the laboratory (correct storage, handling, labeling and disposal)

- Safe, appropriate use of heat sources in the laboratory
- Proper prevention of exposure to bloodborne pathogens from sources such as sharp instruments, tissues and body fluids
- First-aid procedures
- Prompt notification to appropriate supervisors or agencies of any dangerous or potentially dangerous conditions
- Safe, appropriate, and humane treatment of animals
- Prohibition against the use or presence of any venomous animals, poisonous plants or plant pests
- Proper fire prevention and control techniques
- Correct methods for cleanup after experiments
- Proper behavior and courtesy for laboratory situations
- Earthquake-safe behavior and evacuation routes (routes are available by the classroom door)

### **SAFE SCIENCE CLASSROOMS AND LABORATORY**

The California Code of Regulations (CCR), Title 24-Part 2, the California Building Code, Table 1004.1.2 identifies Occupant Load Factors for different types of building uses. For a science lab classroom in any kindergarten through grade 12 (K-12) educational space, the occupant load factor is 50 square feet per person. Classrooms shall not exceed the number of persons allowed.

Other design specifications related to science laboratories in the CCR, Title 5, Section 14030 (i)(1)(A-J) include the following:

Laboratories shall be designed in accordance with the planned curriculum

Size of the science laboratory is at least 1300 square feet, including storage and teacher preparation area

Science laboratory design is consistent with the requirements for proper hazardous materials management according to the California Science Safety Handbook Edition 2014

Accommodations are made for necessary safety equipment and storage of supplies (e.g., fire extinguishers, first-aid kit, master disconnect valve for gas and Safety Data Sheets (SDS)).

Secure storage areas are provided for volatile, flammable, and corrosive chemicals and cleaning agents.

Properly designated areas are provided with appropriate ventilation of hazardous materials that emit noxious fumes.

Exhaust-fume hoods, eye washes, and deluge showers are provided if applicable

Floor and ceiling ventilation is provided in areas where chemicals are stored

Room is provided for movement of students around fixed-learning stations

### **CHEMICAL INFORMATION**

The sites will ensure that hazardous materials are properly used and stored.

The sites will follow the CDE, in cooperation with the Division of Occupational Safety and Health, the list of chemicals used in a school program. This list includes the potential hazards and estimated shelf life of each chemical and chemical compound. The District will conduct regular removal and disposal of all chemicals whose estimated shelf life has elapsed through an Environmental company.

The Chemical Hygiene Plan shall be readily available to employees, employee representatives, and, on request, from the Manager of M&O, James Moreno, at 408-674-1265. The plan is posted on the District's website.

### **SAFETY PRECAUTIONS FOR SCHOOL SCIENCE LABORATORY**

Employee information and training on the hazards of chemicals present in the work area shall be provided at the time of an employee's initial assignment to his or her work area and prior to assignments involving new exposure situations. Refresher information and training shall be provided at intervals determined by the District.

The California Science Safety Handbook for California Public Schools Edition 2014 is readily available to employees and employee representatives. The plan should be followed at all times. The plan is posted on the District's website.

Bloodborne Pathogens (CCR, Title 8, General Industry Safety Orders, Section 5193) applies to all employees that are subject to reasonably anticipated exposure of their skin, eyes or mucous membranes, or through parenteral contact, to blood or other potentially infectious materials as a result of the performance of the duties. The Bloodborne Pathogen Plan is included in the Injury and Illness Prevention Plan (IIPP) and is posted on the District's website. A hard copy is available in the site front office.

Because science classes include a variety of hands-on laboratory activities in which the use of glassware and sharp instruments may result in cuts and abrasions, science teachers should be an integral part of, and comply with their school's exposure control plan. Science teachers will be trained annually as required by the IIPP.

The science teachers should be fully acquainted with first-aid procedures.

Understand the potential hazards of all the materials, processes, and equipment that will be used in the school lab.

Report any student injury or accident immediately on the school district's accident report form.

The use of approved eye-protection devices is required of all persons performing science activities that involve potential hazards to the eyes.

An eyewash station must be available in each laboratory/classroom.

Chemicals should be stored according to their compatibility group in a single safe and practical storage pattern.

Chemicals should be stored in chemically inert containers appropriate for the type and quantity of chemical.

Chemicals should be stored in a separate, locked area away from the classroom, if possible. A NFPA warning symbol should be placed on the front of the cabinet showing the highest hazard rating in each category of any chemical stored in the cabinet.

Regularly inspect chemicals and other supplies. Annually update the chemical inventory and discard any leaking, damaged, empty or unlabeled containers according to protocol.

Maintain a copy of the inventory for local emergency responders.

Maintain a complete inventory of every chemical in storage. Keep copies of the inventory and all SDS in the storage area. The chemical inventory should be reviewed and revised annually.

Chemicals should be purchased in a quantity sufficient to be used within one year. The date of receipt should be written on the label.

When labeling chemicals that have been removed from the original container, give the chemical name or trade name of the product on the label. The label must include the name of the chemical manufacturer along with the address and telephone number. Indicate the strength of the chemical, especially if it was prepared on site. Date all bottles.

Food for human consumption should not be stored in refrigerators or cabinets or on shelves used for storing chemicals or biological materials. Food should not be eaten in science laboratories or storage areas because of the danger of ingesting toxic or corrosive substances.

In an experiment or demonstration involving any flammable liquid (such as alcohol), care must be taken that any flame in the room is at an absolutely safe distance from the volatile liquid.

Teachers and students should be familiar with the operation of all fire extinguishers in the laboratory.

Teachers should be familiar with the location of all master controls for utilities, especially the master valve in each room for the gas outlets.

Good housekeeping is essential in the laboratory.

Laboratories should be locked when not in use.

The custodial staff should be alerted to general hazards they may encounter.

Safety Data Sheets (SDS) for new chemicals must be submitted to James Moreno, Manager of Transportation and Operations. The chemical will be logged on the on-line program.

## **EVACUATION**

The school's evacuation plans, hazardous materials procedures are available to all employees. Important local telephone numbers are available in case of an emergency. The phone numbers are posted at the classroom doors.

## **KNOWLEDGE**

It is the responsibility of all science laboratory staff to have the knowledge and understanding of:

- Science Safety Handbook for California Public Schools Edition 2014
- Oak Grove School District's Chemical Hygiene Plan
- Oak Grove School District's Hazardous Waste Disposal plan
- Oak Grove School District's Hazardous Communication plan
- Oak Grove School District's Fire Prevention Plan
- Oak Grove School District's IIPP (including but not limited to Bloodborne Pathogens)
- Use of Personal Protective Equipment
- Safety Data Sheet (SDS) procedure
- School Eye Safety: Sections 32030, 32031 and 32033 of the EC
- Earthquake Emergency Procedures as per ED 322829a0(B)(ii), 35295, 35296,35297, 40041.5
- Personal Protective Equipment
- Use of Animals in Public Instruction: EC Section 51540
- Know the storage, handling and safety requirements for each chemical used.

## **STEPS FOR ESTABLISHING A SAFE CHEMICAL STORAGE AREA**

Safe storage and use of chemicals and the supervision of laboratory safety are addressed in several sections of the EC and the CCR. Title 8. The following is a summary of some of the relevant stipulations in those codes:

- Each school that offers laboratory work should designate a trained member of the professional staff as the person "responsible for the review, updating, and carrying out of the school's adopted procedures for laboratory safety". (EC Section 49341[b])
- Ensure hazardous material are properly used and stored EC Section 49401.5[a])
- Oak Grove School District's procedures will be followed for the regular removal and disposal of all chemicals whose estimated shelf life has elapsed (EC section 4911[b]).
- The District's Hazardous Communication Program for employees will be followed. Laboratories must maintain labels and SDS of incoming hazardous substances and ensure that they are readily available (CCR, Title 8, Section 5194[b])
- Chemicals should not be stored above eye level.
- Chemicals should not be stored under sinks; with the exception of household bleach and cleaners.
- Solids should be stored higher than liquids.
- No chemicals should be stored on the floor.
- Earthquake lips or barriers are in place on open storage shelves.
- Storage cabinets for corrosive and flammable chemicals are used appropriately.
- The storeroom door is self-closing and is locked.
- Compressed gas cylinders are secured upright to the wall, with caps in place. Flammable gases are separated from oxidizing gases by a one-hour fire wall or at least 25 feet.

- Staff members are adequately trained in chemical storage policies.
- Disposal of chemicals will be processed through the M&O Department, James Moreno. Disposal of hazardous chemicals will be through a licensed contracting firm. A manifest will be maintained for three years.

## **CHEMICAL SEGREGATION**

The storage area should be to separate materials according to chemical specific need. Use the following broad hazard classes as a guide:

Store like materials with like. It is essential to segregate incompatible substances to prevent dangerous interactions. All newly purchased chemicals should have a label on them identifying their hazard category (e.g. flammable, corrosive, oxidizing, toxic etc.). A list of commonly used chemicals that should be segregated is listed below to assist storage.

Store the minimum stock levels of hazardous chemicals in the laboratory

Dispose of hazardous chemicals that are no longer required

Store large breakable containers, particularly of liquids, below shoulder height

Ensure containers and bottle tops are sealed properly to avoid unnecessary leakage of fumes / vapors

### **Storage of specific chemicals**

- Flammable Solvents - e.g. alcohols, toluene, hexane

The vapor above the liquid of these solvents represents the main source of danger from flammable liquids. This vapor is very susceptible to ignition by naked flames, sparks from electric switches (e.g. thermostats) electric motors or from sparks produced electrostatically by friction. Precautions must therefore be taken to prevent contact between any of these and concentrated vapors of flammable liquids.

Flammable solvents should be stored in specialised metal flammable solvent containers (cabinets), clearly labelled and positioned away from doors or other means of escape from the laboratory. It should be noted that no more than 50 litres of flammable material may be kept in any one laboratory room to reduce the risk of a serious laboratory fire. Working volumes of flammable solvents (i.e. those kept on the bench) should not exceed 500 ml (this volume can be easily contained should an accident/fire occur) and the solvent must be kept in a suitable closed vessel.

Flammable solvents should not be stored in fume hoods or vented cabinets, since the airflow will fan any fire and may also spread the fire to other parts of the building via the ventilation ducting.

Flammable solvents must never be stored in a refrigerator unless they are known to be spark proof. It is now departmental policy that all laboratory fridges are spark proofed to avoid the possibility of an internal light or thermostat control unit providing a source of ignition for vapors produced from flammable substances.

Flammable solvents must never be stored with oxidizing agents (e.g. sodium [hypochlorite](#) –



bleach, [iodine](#) and other halogens, hydrogen peroxide, nitric acid, potassium permanganate etc.) reducing agents (e.g. [sodium borohydride](#), [lithium aluminum hydride](#)...etc) or concentrated acids (e.g. concentrated sulphuric or hydrochloric acids).

A list of commonly used chemicals which should be segregated is listed below to assist storage. The SDS should always be consulted if further information is required on storage and chemical incompatibilities of a particular chemical substance.

- Chlorinated solvents (e.g. chloroform, dichloromethane (DCM) trichloroethylene)

Chlorinated solvents are best stored in ventilated cabinets separately from flammable (non-chlorinated) solvents because violent reactions can result from the mixing of certain flammable and chlorinated solvents and toxic gases such as phosgene (as well as hydrogen chloride and chlorine) can be produced. They should not be stored with alkali metals such as lithium, potassium or sodium, since any mixing can cause an explosion. They can be stored in metal containers if ventilated storage is not available.

- Acids and Alkalis

Acids and alkalis are both corrosive substances. They must be stored separately since any accidental mixing of concentrated materials will generate large quantities of heat and fumes. They can be sorted in a vented or metal cabinet so long as they are in a containment tray to prevent any spillages.

Consideration must be given to the effects of corrosive fumes on any metal in the fittings and construction of the container. The use of ventilated cabinets are recommended where possible, allowing the removal of fumes at source. All containers / bottle tops must be suitably sealed to avoid unnecessary leakage of fumes (NB parafilm can be used to seal container lids but should be checked/replaced at regular intervals).

- Oxidizers (e.g. peroxides, perchlorates and nitrates)

Oxidizing substances should be stored in a metal cabinet and away from organic matter such as wood and paper (NB oxidizing agents should never be sorted in a wooden cabinet!). Oxidizing agents must never be stored with flammable solvents or reducing agents since fires and explosions can result after any spillage, even without a naked flame or heat.

Perchloric acid is an extremely strong oxidizing agent (especially in the concentrated form), which can react explosively with organic materials. It should ideally be stored separately on a metal tray of sand within a cabinet, away from organic materials or dehydrating agents such as sulphuric acid.

### **Incompatibility of Common Laboratory Chemicals**

The improper storage or mixing of chemicals can result in serious accidents and even disasters. Violent reactions could occur due to the storing or mixing incompatible chemicals. The following is a list of some incompatible common laboratory chemicals. Before storing or mixing any chemicals, consult this list or the chemicals' SDS. This is only a partial list that includes some of the more common academic laboratory chemicals. Please note that the absence of a chemical from the list does not mean that it is necessarily safe to mix it with any other chemical! You should always check with the SDS if in doubt.

<b>Chemical</b>	<b>Incompatible with</b>
Acetic acid	Chromic acid, nitric acid, hydroxyl compounds, ethylene glycol, perchloric acid, peroxides, permanganates
Acetylene	Chlorine, bromine, copper, fluorine, silver, mercury
Acetone	Concentrated nitric acid and sulphuric acid mixtures
Alkali and alkaline earth metals	Water, carbon tetrachloride or other chlorinated hydrocarbons, carbon dioxide, halogens
Ammonia (anhydrous)	Mercury(e.g., in manometers), chlorine, calcium hypochlorite, iodine, bromine, hydrofluoric acid (anhydrous)
Ammonium nitrate	Acids, powdered metals, flammable liquids, chlorates, nitrites, sulphur, finely divided organic combustible materials
Aniline	Nitric acid, hydrogen peroxide
Arsenical materials	Any reducing agent
Azides	Acids
Bromine	See chlorine
Calcium oxide	Water
Carbon (activated)	Calcium hypochlorite, all oxidizing agents
Chlorates	Ammonium salts, acids, powdered metals, sulphur, finely divided organic or combustible materials
Chromic acid and chromium trioxide	Acetic acid, naphthalene, camphor, glycerol. Alcohol, flammable liquids in general

Chlorine	Ammonia, acetylene, butadiene, butane, methane, propane (or other petroleum gases), hydrogen, sodium carbide, benzene, finely divided metals, turpentine
Chlorine dioxide	Ammonia, methane, phosphine, hydrogen sulphide
Copper	Acetylene, hydrogen peroxide
Cumene hydroperoxide	Acids (organic and inorganic)
Cyanides	acids
Flammable liquids	Ammonium nitrate, chromic acid, hydrogen peroxide, nitric acid, sodium peroxide, halogens
Fluorine	All other chemicals
Hydrocarbons (such as butane, propane, benzene)	Fluorine, chlorine, bromine, chromic acid, sodium peroxide
Hydrocyanic acid	Nitric acid, alkali
Hydrofluoric acid (anhydrous)	Ammonia (aqueous or anhydrous)
Hydrogen sulphide	Fuming nitric acid, oxidizing gases
Hypochlorites	Acids, activated carbon
Iodine	Acetylene, ammonia (aqueous or anhydrous), hydrogen
Mercury	Acetylene, fulminic acid, ammonia
Nitrates	Acids
Nitric acid (concentrated)	Acetic acid, aniline, chromic acid, hydrocyanic acid, hydrogen sulphide, flammable liquids and gases, copper, brass, any heavy metals

Nitrites	Acids
Nitroparaffins	Inorganic bases, amines
Oxalic acid	Silver, mercury
Oxygen	Oils, grease, hydrogen, flammable liquids, solids, and gases
Perchloric acid	Acetic acid, anhydride, bismuth and its alloys, alcohols, paper, wood, grease, oils
Peroxides, organic	Acids (organic or mineral), avoid friction, store cold
Phosphorus (white)	Air, oxygen, alkalies, reducing agents
Potassium chlorate	Sulphuric and other acids
Potassium perchlorate (see also chlorates)	Sulphuric and other acids
Potassium permanganate	Glycerol, ethylene glycol, benzaldehyde, sulphuric acid
Selenides	Reducing agents
Silver	Acetylene, oxalic acid, tartaric acid, ammonium compounds, fulminic acid
Sodium	Carbon tetrachloride, carbon dioxide, water
Sodium nitrite	Ammonium nitrate and other ammonium salts
Sodium peroxide	Ethyl and methyl alcohol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulfide, glycerin, ethylene glycol, ethyl acetate, methyl acetate, furfural
Sulphides	Acids

Sulphuric acid                      Potassium chlorate, potassium perchlorate, potassium permanganate  
(similar compounds of light metal, such as sodium, lithium)

Tellurides                              Reducing agents

## **EMPLOYEE EXPOSURE**

Oak Grove School District makes an initial determination of employee's exposure to any substance regulated by OSHA Standard (29CFR1910.1001 through 20CFR1910.1050) which requires monitoring if there is reason to believe exposure levels for substances routinely exceed the Action Level or in the absence of an Action Level, the Permissible Exposure Limit (PEL). If initial monitoring discloses employee exposure over the Action Level and/or Permissible Exposure Limit, exposure monitoring and cessation of monitoring shall be in accordance with the relevant OSHA Standard.

Where the use of respirators is determined to be necessary to maintain exposure below permissible limits, appropriate respirator protection shall be provided at NO COST to employees. Respirators shall be selected and used in accordance with requirements in 29CFR1910.134(b)(d)(e) & (f).

Oak Grove School District notifies employees of these results in writing either individually or by posting results in the staff lounge within fifteen (15) working days after receipt of monitoring results.

## **EMPLOYEE INFORMATION & TRAINING REQUIREMENTS**

Oak Grove School District provides employees with information and training on hazardous chemicals in their work area, at time of initial assignment, and prior to assignments involving new exposure situations to ensure employees are apprised of the hazards of chemicals present in their work area. Initial information and training sessions for new employees are conducted by Human Resources.

The following information is conveyed to employees:

- The contents of the Occupational Exposure to Hazardous Chemicals in Laboratories Standard 29CFR1910.1450 and its appendices.
- The location and availability of the Chemical Hygiene Plan.
- The signs and symptoms associated with exposure to hazardous chemicals used in the laboratory
- The location and availability of known reference material on the hazards, safe handling, storage & disposal of hazardous chemicals found in the laboratory including but not limited to Safety Data Sheets (SDS) received from chemical suppliers.

In addition to above information, employees are trained on the following:

- Methods and observations which may be used to detect the presence or release of a hazardous chemical in the work area.
- The physical and health hazards of the chemicals.
- The measures employees can take to protect themselves from these hazards, including specific procedures which have been implemented to protect employees from exposure to hazardous chemicals, such as appropriate work practices, emergency procedures, and personal protective equipment to be used.
- The applicable details of the Chemical Hygiene Plan.
- IIPP, including Bloodborne Pathogens

If employees of questions or concerns, please contact James Moreno at 408-674-1265.

## **HAZARD IDENTIFICATION**

With respect to labels and Safety Data Sheets (SDS), Oak Grove School District assures labels on incoming containers of hazardous chemicals are not removed or defaced and Safety Data Sheets that are received with incoming shipments of hazardous chemicals are entered in the SDS 3E system on-line and readily accessible to laboratory employees. A SDS poster giving instructions on receiving a safety data sheet from the database is available in the science lab.

For chemical substances developed in the laboratory, the following procedures have been implemented for the following circumstances:

- For known composition for chemical substances produce exclusively for laboratory use which are determined to be hazardous, the appropriate training is provided
- For unknown composition of chemicals produced as a by-product, the substance is assumed to be hazardous and the appropriate standard procedures are implemented
- For chemical substances produced for another user outside of the laboratory, Oak Grove School District complies with the Hazard Communication Standard 29CFR1910.1200, including the requirements of preparation of SDS and labeling.

## **EMPLOYEE EXPOSURE**

Oak Grove School District makes an initial determination of employee's exposure to any substance regulated by OSHA Standard (29CFR1910.1001 through 20CFR1910.1050) which requires monitoring if there is reason to believe exposure levels for substances routinely exceed the Action Level or in the absence of an Action Level, the Permissible Exposure Limit (PEL). If initial monitoring discloses employee exposure over the Action Level and/or Permissible Exposure Limit, exposure monitoring and cessation of monitoring shall be in accordance with the relevant OSHA Standard.

Where the use of respirators is determined to be necessary to maintain exposure below permissible limits, appropriate respirator protection shall be provided at NO COST to employees. Respirators shall be selected and used in accordance with requirements in 29CFR1910.134(b)(d)(e) & (f).

Oak Grove School District notifies employees of these results in writing either individually or by posting results in the staff lounge within fifteen (15) working days after receipt of monitoring results.

## **MEDICAL PROGRAM**

Oak Grove School District provides all employees who work with hazardous chemicals an opportunity to receive medical attention, including any follow-up examinations which the examining physician determines to be necessary, for the following circumstances:

- Whenever an employee develops signs or symptoms associated with a hazardous chemical to which the employee may have been exposed in the laboratory, the employee is provided an opportunity to receive an appropriate medical examination.
- Where exposure monitoring reveals an exposure routinely above the Action Level, or in the absence of an Action Level above the Permissible Exposure Limit (PEL), for an OSHA regulated substance for which there are exposure monitoring and medical surveillance requirements. Medical Surveillance shall be established for the effected employee as prescribed by the particular OSHA Standard. (Medical Surveillance & Exposure requirements as per 29CFR1910.1001 through 20CFR1910.1050).
- Whenever an event takes place in the work area such as a spill, leak, explosion or occurrence resulting in the likelihood of a hazardous chemical exposure, the effected employee(s) is provided an opportunity for a medical consultation. This consultation is for the purpose of determining the need for a medical examination. An appropriate medical examination is provided as necessary through the Injury and Illness Prevention Plan (IIPP).

Medical examinations are provided by the District's Workers Compensation medical provider at no cost to the employee without loss of pay and at a reasonable time and place. Employees should report to Sylvia Alvarez, Human Resources, to report any injury or illness immediately.

The physician shall be provided with the following:

- The identity of hazardous chemical(s) to which the employee may have been exposed
- A description of the conditions under which the exposure occurred including quantitative exposure data, if available
- A description of the signs and symptoms of exposure the employee is experiencing if any.

The Safety Data Sheets (SDS) are on-line through the 3E company. An employee has 24/7 access to the SDS at **1-800-451-8346**.

### **HOW TO REQUEST A SDS:**

To request a safety data sheet (SDS), an authorized employee simply calls 1-800-451-8346 or mail the request to 3E Company. To ensure your request is quickly processed, it is extremely important to provide as much of the following product information as possible:

- Produce Name
- Manufacturer name
- Product number (found on side of container)
- UPC code (if available)

Please be as specific as possible when requesting SDS for a product. Separate SDS are maintained for products that have even very minor differences from others.

A written opinion is obtained from the examining physician for an examination or consultation which is required by the Standard. The opinion shall include:

- Any recommendation for further medical follow-up
- The results of the medical examination and any associated tests
- Any medical condition that may be revealed in the course of the examination which may place the employee at increased risk as a result of exposure to a hazardous chemical found in the workplace
- A statement the employee has been informed by the physician of the results of the consultation or medical examination and any medical condition that may require further examination or treatment.
- The written opinion shall not include any findings/diagnoses which is not related to an occupational exposure.

## **RECORDKEEPING**

Oak Grove School District establishes and maintains for each employee an accurate record of any measurements taken to monitor employee exposure and any medical consultation and examination including tests or written opinions as required by the Standard. These records are kept, transferred, and made available in accordance with 29CFR1910.20, Access to Employee Exposure and Medical Records.

## **INFORMATION AND RESOURCES**

**SDS** are filed on-line and available to all employees.

Chemical inventory is available on-line and at the M&O Office.

The Chemical Hygiene Plan is reviewed and approved by the Safety Committee and is available on-line.

Oak Grove School District OSHA required policies and procedures are available on-line.

*The Chemical Hygiene Plan was approved by the Safety Committee on April 21, 2015.*

*The Plan was updated on June 30, 2016, September 2017, September 2018 and June 2019.*



Location	Product Name	Mfr.	Mfr. Part #	Physical State	Mfr. City	Mfr. State	Container Type	Container units	Unit of measure for size of container	Notes
Storage room between 23 and 32	Barium Chloride	K12		Liquid			Plastic	1	10ml	
Closet between 23 and 32	Bile Salts	Flinn		Salts	Balavia	IL	Plastic	1	25 gr	
Storage room in 23	Borax	Dial		Powder	Scottsdale	AZ	Cardboard	4 lbs	1	
Closet between 23 and 32	Borax	Dial		Powder	Scottsdale	AZ	Cardboard	1	4 lbs	
Closet between 23 and 32	Calcium Carbonate	Lab Aid		Granule	Ronkonkoma	NY	Plastic	1	10 g	
Closet between 23 and 32	Calcium Carbonate	Lab Aid		Chips	Ronkonkoma	NY	Plastic	1	5 gr	
Closet between 23 and 32	Cetyl Alcohol	Flinn	C0200	Powder	Balavia	IL	Plastic	1	100 g	
Closet between 23 and 32	Citric Acid	Neo Sci	95-0362	Powder	Rochester	NY	Plastic	1	5 gr	
Closet between 23 and 32	Copper	Lab Aids		Granule	Ronkonkoma	NY	Plastic	1	10 g	
Storage Room 32	Food Coloring Red	Neo Sci		Liquid	Rochester	NY	Plastic	1	30ml	
Storage room in 23	Glass Cleaner	West Mart		Liquid		AZ	Plastic	15 oz		

Closet between 23 and 32	Glycerin	Scholar Chemistry	9457306	Liquid			Plastic	1	500ml	
Closet between 23 and 32	Ghost Crystal	Flinn	G0052	Crystal	Balavia	IL	Plastic	1	500 gr	
Closet between 23 and 32	Guer Gum	Flinn	G0040	Powder	Balavia	IL	Plastic	1	500 g	
Closet between 23 and 32	Iron	Lab		Granule			Plastic	1	25gr	
Closet between 23 and 32	Janis Green B	Scholar Chem		Liquid	West Henrietta	NY	Plastic	1	15 ml	
Closet between 23 and 32	Lemon Juice	Lab Aides	6B26128	Liquid	Ronkonkoma	NY	Plastic	7	50 ml	
Closet between 23 and 32	Lighter Fluid	Safeway		Liquid	Pleasanton	CA	Plastic	1	32 oz	Flammable: should be in a flammable container
Closet between 23 and 32	Lugol's solution	Lab Aids		Liquid	Ronkonkoma	NY	Plastic	2	5 ml	
Closet between 23 and 32	Lythium Chloride	Lab Aids	4G541966	Liquid	Ronkonkoma	NY	Plastic	1	25 ml	
Closet between 23 and 32	Magnesium Sulfate	K12	120308	Powder			Plastic	14	4 gr	

Closet between 23 and 32	Metholyn Blue	Wards	250-4000	Liquid	Rochester	NY		Plastic	1	30 ml
Closet between 23 and 32	Metholyn Blue	Cenco	39084	Liquid	Chicago	IL		Glass	2	2 oz
Closet between 23 and 32	Metholyn Blue Crystals	Mc and B	CB1001	Crystals	East Rutherford	NJ		Glass	1	500 grams
Closet between 23 and 32	Potassium Carbonate	Science Shop	SJS-7493-35L	Crystal	Santa Clara	CA		Plastic	1	500 g
Closet between 23 and 32	Potassium Chloride	Lab Aids	4G541967	Liquid	Ronkonkoma	NY		Plastic	1	25ml
Closet between 23 and 32	Potassium Chromate	Scholar		Powder	West Henrietta	NY		Plastic	1	100 g
Storage room in 23	Potassium Iodide	San Jose Scientific		Powder	Santa Clara	CA		Plastic	125 gm	2
Closet between 23 and 32	Potassium Sulfate	Frey	77570	Powder	Nashua	NH		Plastic	1	100 g
Closet between 23 and 32	Potassium Chloride	K12	1AF218	Liquid				Plastic	1	10ml
Closet between 23 and 32	Potassium Chromate	K12		Liquid				Plastic	28	10ml
Closet between 23 and 32	Phenol Red	Science Shop		Liquid	Santa Clara	CA		Plastic	1	100gr
Closet between	Red Cabbag	Flinn	U0014	Powder	Balavia	IL		Plastic	1	10 g

en 23 and 32	e Extract										
Closet between 23 and 32	Rubber Cement	Carters		Paste	Cambridge	Mas s		Metal	1	1 qt	Flam mabl e
Closet between 23 and 32	Silver Nitrate	Consolida ted Chemical & Science		Crystal		Pen n		Glass	1	5gr	
Closet between 23 and 32	Sodium Bicarbonate	Scholar	94277 06	Powder	West Hennrietta	NY		Plastic	2	500 gr	
Closet between 23 and 32	Sodium Carbonate	Lab Aids	6B265 60	Liquid	Ronkonkom a	NY		Plastic	4	25 ml	
Closet between 23 and 32	Sodium Carbonate	Flinn	S0052	Granule	Balavia	IL		Plastic	1	500ml	
Closet between 23 and 32	Sodium Carbonate	Science Shop	SJS- 8427- 35L	Liquid	Santa Clara	CA		Plastic	2	500gr	
Closet between 23 and 32	Sodium Chloride	Lab Aids	4G541 968	Liquid	Ronkonkom a	NY		Plastic	1	25 ml	
Closet between 23 and 32	Sodium Chloride	K12	1AF22 7	Liquid				Plastic	9	10ml	
Closet between 23 and 32	Sodium Hydroxide	K12	1AF25 5	Liquid				Plastic	2	30ml	
Closet between 23 and 32	Sodium Polyacrylate	Flinn	W001 4	Powder	Balavia	IL		Plastic	1	500 gr	
Closet between 23 and 32	Soil Moist Granules	JRM		Granule s	Cleveland	OH		Plastic	1	1 lb	

Closet between 23 and 32	Strontium Chloride	Lab Aids	AP6847	Paper				Plastic	2	25 sheets	
Closet between 23 and 32	Sucrose	Scholar	9495100	Crystals	West Henrietta	NY		Plastic	1	75g	
Closet between 23 and 32	Sucrose 1m	Carolina		Liquid	Burlington	NC		Plastic	1	100 ml	
Closet between 23 and 32	Sudan III	K12		Liquid				Plastic	24	10ml	
Closet between 23 and 32	Universal PH indicator	Neo Sci	95-2141	Liquid	Rochester	NY		Plastic	1	10 ml	
Closet between 23 and 32m 32	Hyvac Oil	Cenco	93050-002	Liquid	Chicago	IL		Plastic	1	500ml	
Closet between 23 and 32	Chlorophyll	World Organic		Liquid				Glass	1	474 ml	
Closet between 23 and 32	Calcium Carbonate	Lab Aides	8471-34-1	Chips				Plastic	2	1 oz	
Closet between 23 and 32	Mixed Dyes	Lab Aides	315-37324	Liquid				Glass	1	1 oz	

Chemicals are stored in a locked cabinet between science classrooms 23 and 32.

In compliance with California Department of Education – Science Safety Handbook 2014 Edition