

Right to Know Review

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Georgia Tech

Chemical Safety Coordinator

Georgia Tech Environmental Health and Safety

- Department Front Office.....4-4636
- Spills/Waste- Ed Pozniak.....4-6224
- Bio-Hazard- Lee Zacarias.....4-6119
- Physical Safety- Alton Chin-Shue.....5-0263
(Electrical Safety, Ergonomics, Lock-out-tag-out)
- Fire Marshal- Mike Hodgson.....4-2990
- Chem-Hazard- D. Wolfe-Lopez.....5-2964
(Also Noise, Laser & Other Non-ionizing Radiation,)
- <http://www.safety.gatech.edu/>



Applicable Laws and Regulations

- Does Not Apply-OSHA regulations referenced as “best management practices” only
- Does Apply- Georgia Public Employees Hazardous Chemical Protection and Right to Know Law also known as RTK

What Products are *NOT* Covered Under This Law?

- Chemicals being transported in state as part of a shipment in interstate or intrastate commerce
- Alcoholic beverages and articles intended for personal consumption.
- Consumer products that are used in the workplace in the same manner as normal consumer use.

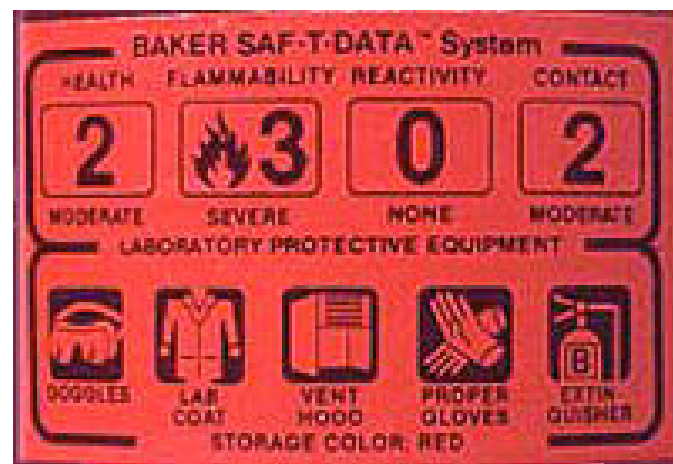


Some Issues Addressed By the Law

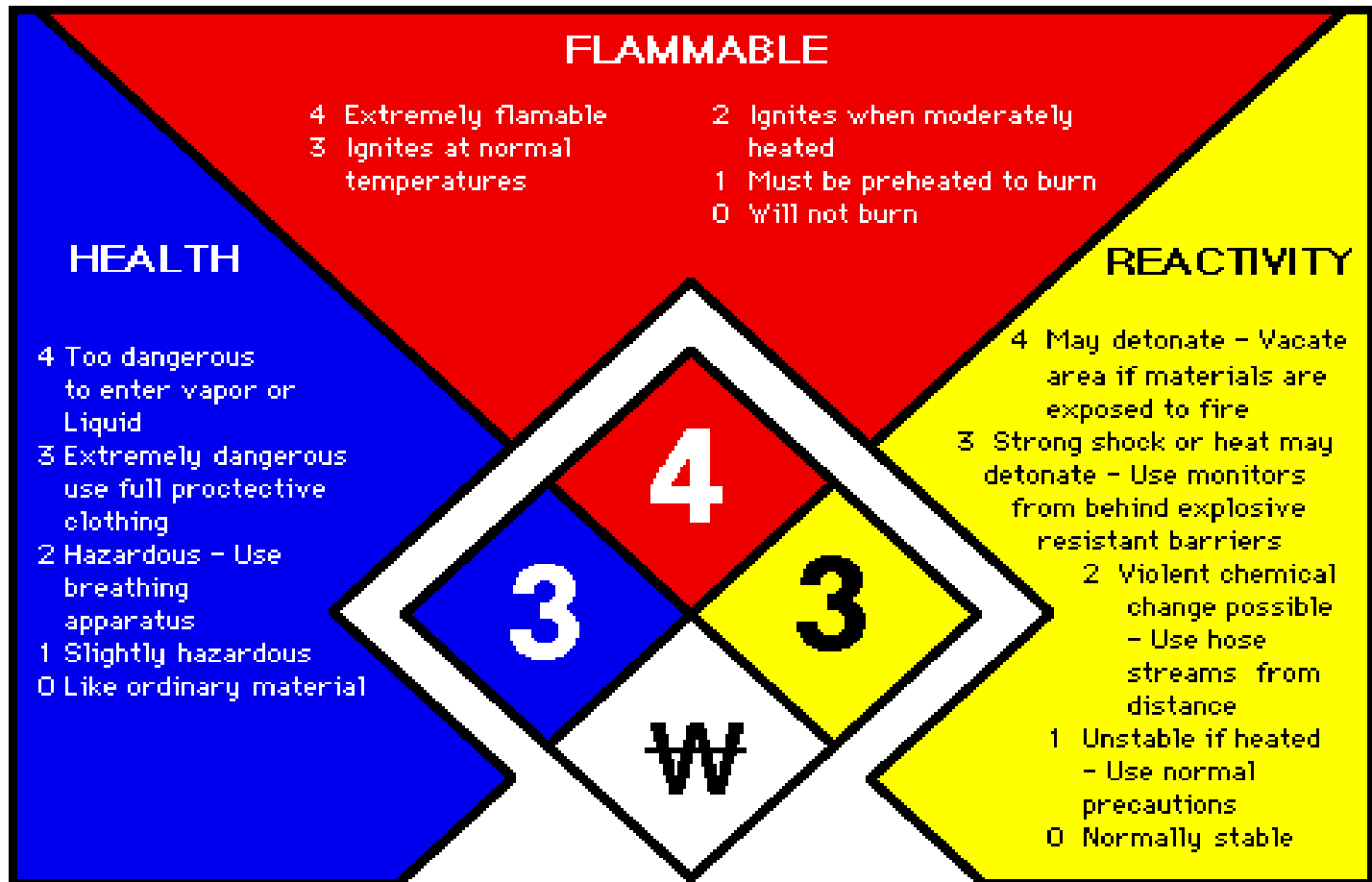
- Labeling
- Inventory
- Access to Hazard Information
- Training
- Protection from Reprisals
- Right to File Grievance

Labeling

- Only one Rule at Georgia Tech- Label everything (even if it is meant for immediate use)
- Label must have name of chemical, manufacturer, and hazard information (exception is immediate use- name only ok)
- Don't deface labels unless the container is empty and washed



NFPA



Semiannual Inventory

- Section 45-22-5, Hazardous Chemical List
 - Law Requires biannual inventory- due to EH&S by Mid December and Mid June
 - Under Chematix system, effective December '05, Chemical Inventory must be *reconciled* between January 1 and June 15 and again between July 1 and December 15.

MSDS

- 45-22-7 MSDS, notice to employees, rights of employees
 - Employers are responsible for making MSDS available to employees on request for any chemical to which the employee has been exposed
 - Employee may refuse to continue work if MSDS not provided within 5 days

MSDS

- MSDS may be kept in electronic format- but be sure you can retrieve and print them out in an emergency
 - www.chematix.gatech.edu
 - www.hazard.com
 - www.safety.gatech.edu

Training

- Section 45-22-8 All Employees Shall Be Trained In:
 - The requirements of this law
 - What a material safety data sheet is, how to read it
 - Any operations in his/her work area where hazardous chemicals are present
 - The location and availability of training programs

Training

- His right to receive information regarding hazardous chemicals in the workplace
- His right for his physician to receive information regarding hazardous chemical to which he may have been exposed
- His right against discharge or other discrimination due to the employee's exercise of his rights under this chapter

There is No “Legal” Format for an MSDS

- However, a generally accepted format ,
from American National Standards Institute
is:
 - Section 1- Product and Manufacturer
Identification
 - Section 2- Chemical and common names of
hazardous ingredients
 - Section 3- Physical and Chemical Properties

Sections 4-10

- Section 4- Physical Hazards (fire & explosion)
- Section 5- Toxicity Data
- Section 6- Health Hazards
- Section 7- Storage and Handling Procedures
- Section 8- Emergency First Aid Procedures
- Section 9- Disposal Considerations
- Section 10- Transportation Information

Other Sections Sometimes Seen

- Fire fighting Measures
- Reactivity Data
- Ecological Data
- Disposal Information
- Regulatory Information
- Miscellaneous Information

Emergency Telephone Number: (877) 536-6332, or (423) 645-7279

Product Identity: XXXXXXXXXX
Composition: Proprietary
CAS #: Mixture
DOT Classification: Caustic alkali liquids, UN 1719

SECTION II: HAZARDOUS INGREDIENTS

Hazardous ingredients: None

SECTION III: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Clear liquid, no distinct odor	Physical State:	Liquid
Evaporation Rate:	Not known	Specific Gravity:	1.27
Solubility in Water:	Not available	Vapor Pressure @ 60° C:	Not applicable
Boiling Point:	116° C	Freezing Point:	-32° C
pH:	9.0 - 10.0		

SECTION IV: FLAMMABILITY AND REACTIVITY

Stability:	Stable	Polymerization:	Will not occur
Flammable Properties:	Non-flammable	Extinguishing Media:	Non-combustible
Fire and Explosion Hazard:	Direct contact with water can cause a violent exothermic reaction.		

Fire Fighting Procedures: Use water to cool containers but avoid getting water into containers. Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and full protective clothing.

Skin:	<u>Corrosive.</u> May cause burns and tissue destruction. Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. Discard non-rubber shoes. Wash clothing before reuse. Get medical attention immediately.		
Eyes:	<u>May cause severe damage including burns and blindness, depending upon concentration and how soon after exposure the eyes are washed.</u> Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Get medical attention immediately.		
Inhalation:	<u>May produce burns of the respiratory tract.</u> Severe exposures could result in chemical pneumonia. Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. Get medical attention immediately.		
Ingestion:	Corrosive. Severe burns and complete tissue perforation of mucous membranes of mouth, throat, and stomach. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. If available, give several glasses of milk. If vomiting occurs spontaneously, keep airway clear and give more water. Get medical attention immediately.		
Carcinogenicity:	None known	Mutagenicity:	None known
Teratogenicity:	None known	Reproductive Effects:	None known
Polymerization:	Will not occur	Repeated Exposure:	No known chronic effects.

SECTION VI: PRECAUTIONS FOR SAFE HANDLING AND USE

Engineering Controls:	No special ventilation required under normal use. NOTE: Where carbon monoxide may be generated, special ventilation may be required.
Personal Protective Equipment:	Respiratory protection is not required under normal use.
Leak and Spill Procedure:	Dry material can be shoveled up. Liquid material can be removed with a vacuum truck. Neutralize remaining traces with any dilute inorganic acid.
Storage Requirements:	Avoid contact with aluminum, tin, zinc, and alloys containing these metals. Avoid contact with leather, wool, acids, organic halogen compounds and organic nitro compounds. Keep container tightly closed and properly labeled. Under normal conditions, this product can be stored satisfactorily in mild steel without an interior lining. Aluminum is not recommended for storage and handling.
Transportation Information:	Hazard Class: 8 DOT/IMO Label: Corrosive

For RTK, Chemical, and Waste
Training on line
and for the Ga Tech Lab Safety
Manual

<http://www.safety.gatech.edu>

Employees' Rights

- Section 45-22-11- employees may file grievances (with the employer's established grievance policy) if their employer does not comply with this law

Your Responsibilities as a Supervisor

- Under RTK the employee must be trained in any operation in his/her work place where hazardous chemicals may be present
- Under the Ga Tech Business Plan Chapter 10.6 Chemical Specific Training must come from the department- therefore it must come from you- no one else can train people on the specific hazards of your area but you or an experienced/ senior employee that you designate

How to Do This

- Create a new employee orientation check list with everything a new employee needs to know- from where safety showers, eyewashes and fire extinguishers are located to how to call for a waste pick up.
 - Teach them how to use shared equipment correctly and safely- this will prolong the working life of the equipment and lower the chances of injuries.

- Have written SOPs for all routine procedures
 - Make sure that everyone knows how to access the GA Tech Lab Safety Manual
- Have the student/new employee sign the checklist once orientation is complete.
- Conduct Monthly meetings
 - Discuss recent safety concerns or show a safety video (find list of available videos at www.safety.gatech.edu)