CHEMICAL HAZARD SYMBOL



IF YOU DISCOVER A FIRE THINGS YOU MUST TO DO:



Know where to find the nearest exit in case of fire or other emergency.
Know the whereabouts of the nearest fire extinguisher, fire sand

bucket, first aid kit.

If an emergency situation arises while you are in the laboratory the first person you should inform is your lab demonstrator. Examples include a dangerous chemical spill, skin or eyes coming into contact with a hazardous substance, an injury from broken glass or fire. The lab staff will coordinate all emergency procedures & inform other staff as well as call for first aid assistance if it is required.

POTENTIALLY TOXIC AND CORROSIVE CHEMICALS

Chemicals	Nature of toxicity	Preventive action
Cadmium and its compounds	Cadmium (Cd) is an extremely toxic industrial and	Must be extremely careful for
	environmental pollutant classified as a human carcinogen.	handling and working with those
	Acute exposure to cadmium fumes may cause flu-like	acute toxins.
	symptoms including chills, fever, and muscle ache	
	sometimes referred to as "the cadmium blues." More severe	
	exposures can cause tracheo-bronchitis, pneumonitis, and	
	pulmonary edema.	
Hydrogen sulfide, Nitrogen dioxide,	Acute toxins can cause severe injury as a result of short-	Zero exposure should be the goal
Arsenic and its compounds, Antimony	term, high-level exposure. In addition antimony trioxide is	when working with acute toxins.
and its compounds	possibly carcinogenic to humans.	Use a fume hood to ensure proper
		ventilation.
Formaldehyde, Lead and its compounds,	Chronic toxins that cause severe injury after repeated	Zero exposure should be the goal
Mercury and its compounds, Tin and its	exposure. Mercury in any form is poisonous, with mercury	when working with chronic toxins.
compounds	toxicity most commonly affecting the neurologic,	
	gastrointestinal (GI) and renal organ systems	
Asbestos, Benzene, Chromium	Carcinogenic that can cause cancer in humans or animals.	Zero exposure should be the goal
(hexavalent),		when working with known or
		suspected carcinogens.
Chloroform, Carbon disulfide, Cadmium	Reproductive toxins that can produce adverse effects in	Use a fume hood to ensure proper
nitrate, Sodium azide	parents and developing embryos.	ventilation.
Ammonia, Sulfur dioxide, Phosgene,	Irritants that can cause reversible inflammation or irritation	Use a fume hood to ensure proper
chlorine gas	to the eyes, respiratory tract, skin, and mucous membranes.	ventilation.
Isocyanates, Nickel salts, Beryllium	Sensitizers may cause little or no reaction upon first	Protect all exposed skin surfaces
compounds, Diazomethane	exposure. Repeated exposures may result in severe allergic	from contact with corrosive or
	reactions	irritating gases and vapors.
n-hexane, tetrachloroethylene, and	neurotoxins that are destructive to nerve tissue	Use a fume hood to ensure proper
toluene		ventilation.
Pyridine	Chronic exposure to pyridine causes hepatotoxicity and	Use a fume hood to ensure proper
	nephrotoxicity.	ventilation.
Acids include hydrochloric acid, sulfuric	Corrosive substance causes very significant hazard because	The eyes are particularly
acid, nitric acid, chromic acid, acetic	skin or eye contact can readily occur from splashes and their	vulnerable. It is therefore essential
acid and hydrofluoric acid, bases are	effect on human tissue.	that approved eye and face
ammonium hydroxide, potassium		protection be worn. Gloves and
hydroxide and sodium hydroxide,		other chemically resistant
Bromine, sodium hydroxide, sulfuric		protective clothing should be worn
acid and hydrogen peroxide are		to protect against skin contact.
examples of highly corrosive substances.		