

### Student Handout

### Material Safety Data Sheets (MSDS)

These information sheets provide detailed information about the content, hazards and emergency response measures for the controlled product. MSDS must be available to you for any controlled product to which you may be exposed. The supplier and/or the employer provide the MSDS. The following is a sample MSDS:

#### MATERIAL SAFETY DATA SHEET – 9 Sections

##### SECTION 1 – PRODUCT INFORMATION

Product Identifier		WHMIS Classification (optional)	
Product Use			
Manufacturer's Name		Supplier's Name	
Street Address		Street Address	
City	Province	City	Province
Postal Code	Emergency Telephone	Postal Code	Emergency Telephone

##### SECTION 2 – HAZARDOUS INGREDIENTS

Hazardous Ingredients (specific)	%	CAS Number	LD <sub>50</sub> of Ingredient (specify species and route)	LC <sub>50</sub> of Ingredient (specify species)

##### SECTION 3 – PHYSICAL DATA

Physical State	Odour and Appearance		Odour Threshold (ppm)
Specific Gravity	Vapour Density (air=1)	Vapour Pressure (mmHg)	Evaporation Rate
Boiling Point (°C)	Freezing Point (°C)	pH	Coefficient of Water/Oil Distribution

##### SECTION 4 – FIRE AND EXPLOSION DATA

Flammability <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, under which conditions?		
Means of Extinction			
Flashpoint (°C) and Method	Upper Flammable Limit (% by volume)	Lower Flammable Limit (% by volume)	
Autoignition Temperature (°C)	Explosion Data – Sensitivity to Impact	Explosion Data – Sensitivity to Static Discharge	
Hazardous Combustion Products			

##### SECTION 5 – REACTIVITY DATA

Chemical Stability <input type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?		
Incompatibility with Other Substances <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones?		
Reactivity, and under what conditions?			
Hazardous Decomposition Products			



## 6-minute safety talk for plumbing

### MSDS - page 2

If you are required to work with a WHMIS controlled product, you should read and understand the MSDS before using it. If the date on the MSDS is more than 3 years old, ask your supervisor or manager to get a new one. As plumbing work takes place in many different locations, you will need to carry the MSDS with you to the work site. It will include first aid instructions in case of a splash which results in eye injury or accidental swallowing of a chemical.

<b>Product Identifier</b>
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#### SECTION 6 – TOXICOLOGICAL PROPERTIES

Route of Entry	<input type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Eye Contact	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
Effects of Acute Exposure to Product					
Effects of Chronic Exposure to Product					
Exposure Limits (value, source, date)			Infancy (if yes, explain)		
			<input type="checkbox"/> Yes <input type="checkbox"/> No		
Sensitization (if yes, explain)			Cardiogenicity (if yes, explain)		
<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No		
Reproductive Toxicity (if yes, explain)			Teratogenicity (if yes, explain)		
<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No		
Mutagenicity (if yes, explain)			Synergistic Products (if yes, explain)		
<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No		

#### SECTION 7 – PREVENTIVE MEASURES

Personal Protective Equipment	<input type="checkbox"/> Gloves	<input type="checkbox"/> Respirator	<input type="checkbox"/> Eye	<input type="checkbox"/> Footwear	<input type="checkbox"/> Clothing	<input type="checkbox"/> Other
If checked, specify type						
Engineering Controls (specify, such as ventilation, enclosed process)						
Leak and Spill Procedure						
Waste Disposal						
Handling Procedures and Equipment						
Storage Requirements						
Special Shipping Information					PIN	

#### SECTION 8 – FIRST AID MEASURES

Inhalation
Ingestion
Skin Contact
Eye Contact

#### SECTION 9 – PREPARATION INFORMATION

Prepared by (Group, Department, etc.)	Telephone Number	Preparation Date
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