

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 (specify)	%	CAS Number	LD ₅₀ of Ingredient (specify species and route)	LC ₅₀ 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			

57M2 (RS/00) SAMPLE FORMAT PROVIDED BY THE WORKERS' COMPENSATION BOARD OF BRITISH COLUMBIA Please continue on reverse side



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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.

Sample MSDS page 2:

Product Identifier	
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)	Irritancy (if yes, explain) <input type="checkbox"/> Yes <input type="checkbox"/> No
Sensitization (if yes, explain) <input type="checkbox"/> Yes <input type="checkbox"/> No	Cardiac Toxicity (if yes, explain) <input type="checkbox"/> Yes <input type="checkbox"/> No
Reproductive Toxicity (if yes, explain) <input type="checkbox"/> Yes <input type="checkbox"/> No	Teratogenicity (if yes, explain) <input type="checkbox"/> Yes <input type="checkbox"/> No
Mutagenicity (if yes, explain) <input type="checkbox"/> Yes <input type="checkbox"/> No	Synergistic Products (if yes, explain) <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	
SECTION 8 – FIRST AID MEASURES	
Inhalation	
Ingestion	
Skin Contact	
Eye Contact	
SECTION 9 – PREPARATION INFORMATION	
Prepared by (Group, Department, etc.)	Telephone Number
	Preparation Date

