

Name: \_\_\_\_\_ Date: \_\_\_\_\_

# Sample MSDS

## MATERIAL SAFETY DATA SHEET – 9 Sections

### SECTION 1 – PRODUCT INFORMATION

Product Identifier <b>Acetone</b>		WHMIS Classification (optional) <b>B2, D2B</b>	
Product Use <b>Solvent, general-purpose cleaning of adhesives, contact cements, printing inks, gums, waxes, resins, greases, and oils</b>			
Manufacturer's Name <b>Happy Chemical Company</b>		Supplier's Name <b>Big Chemical Company</b>	
Street Address <b>5556 Helium Lane</b>		Street Address <b>123 Nitro Avenue</b>	
City <b>Gaseous Bay</b>	Province <b>BC</b>	City <b>Vapour Town</b>	Province <b>BC</b>
Postal Code <b>X0X 0X0</b>	Emergency Telephone <b>(604) 234-5678</b>	Postal Code <b>X5X 5X5</b>	Emergency Telephone <b>(604) 345-6789</b>

### 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)
Acetone	99-100	67-64-1	5,800 mg/kg (oral, rat)	30,000 ppm (inhal., 4hrs.)

### SECTION 3 – PHYSICAL DATA

Physical State <b>Liquid</b>	Odour and Appearance <b>Clear, colourless liquid with mildly pungent, sweet and fruity odour</b>		Odour Threshold (ppm) <b>62 (average)</b>
Specific Gravity <b>0.791 at 20°C</b>	Vapour Density (air=1) <b>2.0</b>	Vapour Pressure (mm Hg) <b>24-24.71 kPa</b>	Evaporation Rate <b>5.6 (n-butyl acetate=1)</b>
Boiling Point (°C) <b>56.2</b>	Freezing Point (°C) <b>-94.6</b>	pH <b>n/ap</b>	Coefficient of Water/Oil Distribution <b>0.58</b>

### SECTION 4 – FIRE AND EXPLOSION DATA

Flammability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, under which conditions? <b>Flammable liquid</b>		
Means of Extinction <b>Carbon dioxide, dry chemical powder, "alcohol" foam, polymer foam. Water may be ineffective because it will not cool acetone below its flashpoint.</b>			
Flashpoint (°C) and Method <b>-18°C (cc)</b>	Upper Flammable Limit (% by volume) <b>12.8% at 25°C</b>	Lower Flammable Limit (% by volume) <b>2.5% at 25°C</b>	
Autoignition Temperature (°C) <b>465°C</b>	Explosion Data – Sensitivity to impact <b>No</b>	Explosion Data – Sensitivity to Static Discharge <b>Yes</b>	
Hazardous Combustion Products <b>Carbon monoxide and carbon dioxide</b>			

### SECTION 5 – REACTIVITY DATA

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?		
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? <b>Acids (for example, nitric acid)</b> <b>Strong oxidizing agents (for example, hydrogen peroxide)</b> <b>Bases (for example, sodium hydroxide)</b>		
Reactivity, and under what conditions? <b>Attacks many forms of plastics and rubber, including rayon</b>			
Hazardous Decomposition Products <b>Carbon monoxide from prolonged exposure to sunlight</b>			

SAMPLE FORMAT PROVIDED BY THE WORKERS' COMPENSATION BOARD OF BRITISH COLUMBIA

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**BLM 1-7**  
(continued)

Product Identifier	Acetone
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**SECTION 6 – TOXICOLOGICAL PROPERTIES**

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Ingestion
Effects of Acute Exposure to Product	Irritation; possible effects on central nervous system (CNS); at air concentrations above 8,000 ppm may cause drowsiness, incoordination, loss of reflexes, unconsciousness, and respiratory failure				
Effects of Chronic Exposure to Product	Dermatitis. No significant harmful effects from oral or inhalation exposures.				
Exposure Limits (value, source, date)	250 ppm, 8-hour exposure limit (WCB)		Irritancy (if yes, explain)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Severe eye irritant, skin and respiratory irritant	
Sensitization (if yes, explain)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Carcinogenicity (if yes, explain)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Reproductive Toxicity (if yes, explain)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Teratogenicity (if yes, explain)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Mutagenicity (if yes, explain)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Synergistic Products (if yes, explain)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Chlorinated solvents, ethyl alcohol	

**SECTION 7 – PREVENTIVE MEASURES**

Personal Protective Equipment	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Respirator	<input checked="" type="checkbox"/> Eye	<input type="checkbox"/> Footwear	<input type="checkbox"/> Clothing	<input type="checkbox"/> Other
If checked, specify type	Butyl rubber gloves. NIOSH-approved respirator with organic vapour cartridge for air concentrations up to 2,500 ppm. Splash-proof chemical safety goggles or face shield.					
Engineering Controls (specify, such as ventilation, enclosed process)	Use mechanical ventilation to reduce exposure. Use non-sparking and grounded ventilation system.					
Look and Spill Procedure	Eliminate all ignition sources. Wear adequate protective equipment. Contain spill with absorbent material and place in a suitable covered and labelled container for disposal.					
Waste Disposal	Check with federal, provincial, and local government requirements for disposal.					
Handling Procedures and Equipment	Use in a well-ventilated area, away from heat and all ignition sources (including sparks, open flames, and hot surfaces). Do not use with incompatible substances. Use grounded and non-sparking equipment.					
Storage Requirements	Store in cool, well-ventilated area out of direct sunlight, away from heat and ignition sources. Storage facilities should be made from fire-resistant materials.					
Special Shipping Information	TDG shipping name: Acetone, Classification 3, Flammable liquid, Packing Group II				PIN	1090

**SECTION 8 – FIRST AID MEASURES**

Inhalation	Remove source of contamination or move victim to fresh air.
Ingestion	If conscious, have victim rinse mouth thoroughly with water; do not induce vomiting; have victim drink 240-300 mL of water. Obtain medical attention immediately.
Skin Contact	Flush with water for 15 minutes.
Eye Contact	Immediately flush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, while holding eyelids(s) open. Obtain medical attention immediately.

**SECTION 9 – PREPARATION INFORMATION**

Prepared by (Group, Department, etc.)	Sally Safemeister	Telephone Number	(604) 123-2222	Preparation Date	January 4, 2006
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