








Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing
 	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2B: Material causing other toxic effects (TOXIC).	  

Section 1. Product and Company Identification

Product Name / Trade name	Acetone	Associated Product's Item Code	13-260
Synonym	2-propanone, Dimethyl ketone	CAS #	67-64-1
Chemical Family	Aliphatic ketone. (Solvent.)	DSL	CEPA DSL: 2-propanone
Chemical Formula	CH ₃ COCH ₃	Validation Date	4/6/2001.
Manufacturer	Recochem Inc. 850 Montée de Llesse Montreal, Quebec 514-341-3550	Print Date	5/5/2001.
Material Uses	Consumer products: Solvent.	In Case of Emergency	Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788

Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			Canadian Values (ACGIH)	U.S. Values (OSHA)
1) Acetone	67-64-1	100	TWA: 500 ppm from ACGIH (Canada, 1999). Period: 8 hour(s). STEL: 750 ppm from ACGIH (Canada, 1999). Period: 15 minute(s). TWA: 1188 mg/m ³ from ACGIH (Canada, 1999). Period: 8 hour(s). STEL: 1782 mg/m ³ from ACGIH (Canada, 1999). Period: 15 minute(s).	1) Acetone TWA: 1000 ppm from OSHA (United States, 1999). Period: 8 hour(s). TWA: 2400 mg/m ³ from OSHA (United States, 1999). Period: 8 hour(s).

Section 3. Emergency Overview

Hazard Overview	DANGER POISON. EXTREMELY FLAMMABLE LIQUID AND VAPOUR. Vapour harmful. Keep away from heat, sparks and flame. DO NOT ingest. Avoid contact with eyes. Avoid breathing vapours or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Aspiration hazard if swallowed- can enter lungs and cause damage.
Potential Acute Health Effects	Hazardous in case of eye contact (Irritant). Slightly hazardous in case of ingestion, of inhalation. May cause central nervous system depression.
Note to Physician	Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

Section 4. First Aid Measures

Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. SEEK IMMEDIATE MEDICAL ATTENTION.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops.
Inhalation	Allow the victim to rest in a well ventilated area. Seek medical attention.
Ingestion	DO NOT induce vomiting. If affected person is conscious give plenty of water to drink. NEVER give an unconscious person anything to ingest. If vomiting occurs, keep head lower than hips to help prevent aspiration. SEEK IMMEDIATE MEDICAL ATTENTION.



Section 5. Fire Fighting Measures

Products of Combustion	These products are carbon oxides (CO, CO ₂).
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion.
Fire Hazards	EXTREMELY FLAMMABLE LIQUID AND VAPOR.
Explosion Hazards	Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Vapour forms explosive mixture with air between upper and lower flammable limits.

Section 6. Accidental Release Measures

Small Spill and Leak	Mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.
Large Spill and Leak	Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Place in appropriate container and dispose of in accordance with regional regulations.

Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Handle and open container with care. After handling, always wash hands thoroughly with soap and water.
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 38°C (100.4°F). Keep away from incompatibles.

Section 8. Exposure Controls, Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
<i>Eyes</i>	Splash goggles.
<i>Body</i>	No special protective clothing is required.
<i>Respiratory</i>	Organic vapour cartridge respirator.
<i>Hands</i>	Gloves (impervious).

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Characteristic.
Molecular Weight	58.08 g/mole	Taste	Not available.
pH (1% Soln/Water)	Not available.	Color	Colorless.
Boiling/Condensation Point	56°C (132.8°F)	Volatility	100% (v/v).
Melting/Freezing Point	-95°C (-139°F)	Evaporation Rate	5.6 compared to Butyl acetate.
Specific Gravity	0.79 (Water = 1)	Odor Threshold	100 ppm
Vapor Pressure	186.2 mm of Hg (@ 20°C)	Viscosity	Kinetic: 0.4 cS (@ 20°C)
Vapor Density	2 (Air = 1)	Solubility	Soluble in water, methanol, diethyl ether. Partially soluble in n-octanol.
VOC Content	791 (g/l).	Other Properties	Not available.
The Product is:	Flammable.		
Autoignition Temperature	465°C (869°F)		
Flash Points	CLOSED CUP: -18°C (-0.4°F). (Tagliabue.)		
Flammable Limits	LOWER: 2.6% UPPER: 12.8%		

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Fire Hazards in Presence of Various Substances Extremely flammable in presence of open flames, sparks and static discharge.

Section 10. Stability and Reactivity

Stability The product is stable.

Conditions of Instability No additional remark.

Incompatibility with Various Substances Slightly reactive to reactive with oxidizing agents, reducing agents, acids, alkalis.

Section 11. Toxicological Information

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals Acute oral toxicity (LD50): 5800 mg/kg [Rat].
Acute dermal toxicity (LD50): 16000 mg/kg [Rabbit].

Acute Effects on Humans

Eyes May cause eye irritation.

Skin Can cause dermatitis.

Inhalation Practically non-toxic by inhalation. Over-exposure by inhalation may cause respiratory irritation. May cause central nervous system depression.

Ingestion Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

Chronic Effects on Humans CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, D (Not classifiable for human or animal.) by EPA.
MUTAGENIC EFFECTS: Non-mutagenic for bacteria and/or yeast.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Prolonged exposure can cause dermatitis.

Section 12. Ecological Information

Ecotoxicity Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

TDG Classification (Canada)	Class 3: Flammable liquid.	
PIN (Canada)	Shipping name: Acetone UNNA: UN 1090 PG: II	
Special Provisions for Transport (Canada)	In containers of 1 L capacity or less this product is classified as a "Consumer Commodity" under TDG regulations.	
IMDG Classification	3.1	
PIN	Shipping name: Acetone UNNA: UN 1090 PG: II	
Marine Pollutant	Not pollutant.	
DOT Classification (U.S.A)	Class 3: Flammable liquid.	
PIN	Acetone, 3, UN 1090, II, Not pollutant.	
Special Provisions for Transport (U.S.)	Containers of 1 L or less ship as: Class: ORM-D Name: Consumer Commodity	

**Section 15. Other Regulatory Information and Pictograms****WHMIS Classification
(Canada)**CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
Class D-2B: Material causing other toxic effects (TOXIC).**HCS Classification (U.S.A.)**

Class: Flammable liquid having a flash point lower than 37.8°C (100°F).

USA Regulatory Lists

TSCA Inventory: 2-propanone

**Hazardous Material
Information System
(U.S.A.)**

Flammability	1
Reactivity	3
Personal Protection	0
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**National Fire
Protection
Association (U.S.A.)****Section 16. Other Information**

Validated and verified by Product Development and Technical Coordinator on 4/6/2001.

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Notice to Reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.