



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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### Product Name: ACETONE

Company: Recochem Inc. ABN: 69 010 485 999  
Address : 1809 Lytton Road, Lytton, Queensland 4178  
Phone: (07) 3308 5200 Fax: (07) 3308 5201  
Emergency Telephone Number: (07) 3308 5200 Day, After Hours 1300 131 001

Other Names: 2-Propanone, Dimethyl Ketone  
Manufacturer's Product Code: 16255  
Recommended Use: Solvent

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## SECTION 2 HAZARDS IDENTIFICATION

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**CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA  
A DANGEROUS GOODS ACCORDING TO THE CRITERIA OF THE ADG CODE**

**Symbols:** F - Flammable  
Xi - Irritant  
**Risk Phrases:** R11 - Highly Flammable  
R36 - Irritating to eyes.  
R66 - Repeated exposure may cause skin dryness or cracking  
R67 - Vapours may cause drowsiness and dizziness  
**Safety Phrases:** S2 - Keep out of the reach of children  
S9 - Keep container in a well ventilated place  
S16 - Keep away from sources of ignition – No smoking  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S46 - If swallowed, seek medical advice immediately and show this container or label

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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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### Hazardous Ingredients

<i>Chemical Entity</i>	<i>CAS Number</i>	<i>Proportion (%)</i>
Acetone	67-64-1	> 99

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## SECTION 4 FIRST AID MEASURES

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### FIRST AID TREATMENT

**Swallowed:** If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment.  
**Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.  
**Skin:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. If irritation occurs seek medical advice.  
**Inhaled:** Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.

**First Aid facilities:** Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

**Advice to Doctor:** Treat symptomatically.

**Additional Information:** None available.

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## SECTION 5 FIRE FIGHTING MEASURES

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**Specific Hazards:** A highly flammable liquid. May form flammable vapour mixture with air. Avoid all ignition sources.

**Product:** ACETONE

**Suitable Extinguishing Media:** Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Hazards from combustion products:** Carbon monoxide and/or Carbon dioxide may be evolved. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Heating can cause expansion or decomposition leading to violent rupture of containers. Containers exposed to intense heat from fires should be cooled with large quantities of water.

**Fire Fighting Media and Instructions:** Highly flammable liquid. Wear full protective clothing and self-contained breathing apparatus.

**Additional Information:** Hazchem code •2YE.

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

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Observe all local and national regulations.

**Spills and Disposal:** Shut off all sources of ignition. Increase ventilation. Clear area of all unprotected personnel. Stop leak if safe to do so. Absorb with dry earth, sand or other non-combustible and inert material. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

**Methods and Materials for Containment and Clean Up Procedures:** For small spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Retain as contaminated waste. Allow and residues to evaporate or use an appropriate absorbent material and dispose of safely.

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## SECTION 7 HANDLING AND STORAGE

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**Precautions for Safe Handling and Storage:** Avoid breathing material and contact with skin and eyes and clothing. Handle open containers in well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains. Before eating, drinking or smoking, remove contaminated clothing and wash hands thoroughly. Do not eat, drink or smoke in contaminated areas. Do not store near strong oxidants. Flameproof equipment necessary in area where chemical is being used. Nearby equipment must be earthed. Vapours may accumulate in low or confined areas.

**Dispensing:** Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

**Flammability:** Highly flammable.

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## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Exposure Standards:** National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard 1185mg/m<sup>3</sup> (500ppm) TWA (8hr), STEL 2375mg/m<sup>3</sup> (1000ppm).

**Biological Limit Values:** No biological limit allocated.

**Personal Protective Equipment:**

**Respiratory Protection:** If inhalation risk exists an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.

**Hand Protection:** Use solvent resistant gloves (nitrile, PVC or neoprene).

**Eye Protection:** Wear safety goggles.

**Protective Clothing:** Use chemical resistant glove/gauntlets, boots and apron. Skin protection not ordinarily required beyond standard issue work clothes.

**Engineering Controls:** Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists. Keep containers closed when not in use.

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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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### PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES

Appearance	Colourless Clear Liquid
Odour	Characteristic
pH:	N/A
Vapour Pressure (mmHg @ 20°C):	186
Vapour Density (air = 1)	2 @ 15 Deg C
Boiling Point (°C):	56

**Product: ACETONE**

Freezing/Melting Point (°C):	-95
Solubility in Water	Miscible with water
Specific Gravity (g/ml @ 15°C):	0.79
Flashpoint (°C):	-18 (Closed cup)
Flammability Limits (%):	2.15 - 13.0
Auto Ignition Temperature (°C):	465
Percent Volatiles	100

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**SECTION 10 STABILITY AND REACTIVITY**

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**Chemical Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** Avoid heat, sparks, open flames and other ignition sources.

**Incompatible Materials:** Strong oxidising agents, reducing agents, acids, alkalis.

**Hazardous Decomposition Products:** Burning can produce carbon monoxide and/or carbon dioxide.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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**HEALTH EFFECTS**

*Acute:*

**Swallowed:** Low toxicity: LD50 >2000 mg/kg, Rat. May result in irritation of the gastrointestinal tract, nausea, headache and vomiting. Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

**Eye:** Liquid is a moderate to severe eye irritant. High concentrations of 500-1000ppm are irritating to eyes.

**Skin:** Contact with skin may result in irritation. Will have a degreasing effect on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

**Inhaled:** Low toxicity: LC50 >20 mg/l / 4 hours, Rat. Vapour concentrations above 500ppm are irritating to the nose and throat. May cause central nervous system depression.

**Chronic:** None.

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**SECTION 12 ECOLOGICAL INFORMATION**

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**Ecotoxicity:**

Fish : Low toxicity: LC/EC/IC50 > 1000 mg/l

Aquatic Invertebrates : Low toxicity: LC/EC/IC50 > 1000 mg/l

Algae : Low toxicity: LC/EC/IC50 > 1000 mg/l

Microorganisms : Low toxicity: LC/EC/IC50 > 1000 mg/l

**Mobility:** Miscible with water. If product enters soil, it will be mobile and may contaminate groundwater.

**Persistence/degradability:** Readily biodegradable.

**Bioaccumulation:** Not expected to bioaccumulate significantly.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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**Disposal Methods:** Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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UN Number:	1090	Proper Shipping Name:	Acetone
Class:	3	Subsidiary Risk:	None allocated
Packing Group:	II	Hazchem Code:	●2YE
Special Precautions for User:	None		

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**SECTION 15 REGULATORY INFORMATION**

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Poisons Schedule : 5

AICS : Listed

Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76:2010) : 14

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**SECTION 16 OTHER INFORMATION**

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Further Information may be obtained by contacting Recochem on (07) 3308 5200

**Product: ACETONE**

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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

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