



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Product Name: METHYL ISOBUTYL KETONE**

Company: Recochem Inc. ABN: 69 010 485 999  
Address : 1809 Lytton Road, Lytton, Queensland 4178  
Phone: (07) 3396 7033 Fax: (07) 3396 7329  
Emergency Telephone Number: (07) 3396 7033 Day, After Hours 1300 131 001

Other Names: 4-Methyl-2-pentanone, Isopropyl acetone  
Manufacturer's Product Code: 16772  
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  
Xn - Harmful  
**Risk Phrases:** R11 - Highly flammable  
R20 - Harmful by inhalation  
R36/37 - Irritating to eyes and respiratory system  
R66 - Repeated exposure may cause skin dryness or cracking  
**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  
S29 - Do not empty into drains

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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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<b>Hazardous Ingredients</b>	<i>CAS Number</i>	<i>Proportion (%)</i>
<i>Chemical Entity</i> Methyl Isobutyl Ketone	108-10-1	> 99

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## SECTION 4 FIRST AID MEASURES

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### FIRST AID TREATMENT

**Swallowed:** If swallowed, do NOT induce vomiting. Seek immediate medical attention.  
**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.

**Product: METHYL ISOBUTYL KETONE**

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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. Flameproof equipment necessary in area where chemical is being used. Nearby equipment must be earthed. Vapours may travel considerable distances to source of ignition and flashback. Vapours may accumulate in low or confined areas.

**Hazards from combustion products:** Carbon monoxide and/or carbon dioxide may be evolved.

**Fire Fighting Media and Instructions:** Highly flammable liquid. Heating can cause expansion or decomposition leading to violent rupture of containers. Use water fog or spray, foam or dry agent.

**Additional Information:** Hazchem code ●3YE.

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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. Prevent spills from entering drains or waterways.

**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 of or contact with material. Use in well ventilated areas. Wash thoroughly after handling. Avoid 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. Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Do not store near strong oxidisers and alkalis.

**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:** Worksafe Australia has set an exposure standard 205mg/m<sup>3</sup> (50ppm) TWA (8hr), STEL 307mg/m<sup>3</sup> (75ppm).

**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.

**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 IDENTIFICATION**

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**PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES**

Appearance	Colourless clear liquid
Odour	Mild
pH:	N/A
Vapour Pressure (mmHg @ 20°C):	15.0
Vapour Density (air = 1)	3.5 @ 15 Deg C
Boiling Point (°C):	114
Freezing/Melting Point (°C):	-84

**Product: METHYL ISOBUTYL KETONE**

Solubility in Water	20g/l
Specific Gravity (g/ml @ 15°C):	0.802
Flashpoint (°C):	16 (Closed cup)
LEL - UEL(%):	1.2 - 8.0
Auto Ignition Temperature (°C):	460
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, 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:** Swallowing may result in irritation of the gastrointestinal tract, nausea, headache and vomiting. LD50 greater than 2000mg/kg (rat, mouse).

**Eye:** Liquid is an irritant.

**Skin:** Contact with skin may result in irritation. Will have a degreasing effect on the skin. LD50 greater than 20,000mg/kg (rabbit).

**Inhaled:** Harmful LC50 23,3000mg/m<sup>3</sup> (mouse).

**Chronic:** Prolonged exposure can cause dermatitis.

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**SECTION 12 ECOLOGICAL INFORMATION**

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**Ecotoxicity:** No data.

**Mobility:** Highly mobile and may leach into to ground water.

**Persistence/degradability:** Biodegradable; bioaccumulation is not expected.

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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:	1245	Proper Shipping Name:	Methyl isobutyl ketone
Class:	3	Subsidiary Risk:	None allocated
Packing Group:	II	Hazchem Code:	●3YE
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

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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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