



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CYCLOHEXANONE

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: Cyclohexyl ketone, Ketoexamethylene, Pimelic ketone.
Manufacturer's Product Code: 16774
Recommended Use: Solvent

SECTION 2 HAZARDS IDENTIFICATION

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

Symbols: Xn - Harmful
Risk Phrases: R10 - Flammable
R20 - Harmful by inhalation
Safety Phrases: S2 - Keep out of the reach of children
S25 - Avoid contact with eyes

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients

<i>Chemical Entity</i>	<i>CAS Number</i>	<i>Proportion (%)</i>
Cyclohexanone	108-94-1	> 99

SECTION 4 FIRST AID MEASURES

FIRST AID TREATMENT

Swallowed: If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.
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.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazards: 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: Flammable liquid. Heating can cause expansion or decomposition leading to violent rupture of containers. Use foam, dry agent (carbon dioxide, dry chemical powder).

Product: CYCLOHEXANONE

Additional Information: Hazchem code •3Y.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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.

SECTION 7 HANDLING AND STORAGE

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: Flammable.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: Worksafe Australia has set an exposure standard 100mg/m³ (25ppm) TWA (8hr).

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.

SECTION 9 IDENTIFICATION

PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES

Appearance	Colourless clear liquid
Odour	Sweet
pH:	N/A
Vapour Pressure (@ 20°C):	2.0
Vapour Density (air = 1)	3.38
Boiling Point (°C):	156
Freezing/Melting Point (°C):	-31
Solubility in Water	Immiscible
Specific Gravity (g/ml @ 20°C):	0.95
Flashpoint (°C):	44 (Closed cup)
Flammability Limits (%):	1.1 - 9.4
Auto Ignition Temperature (°C):	420
Percent Volatiles	100

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Product: CYCLOHEXANONE

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

Incompatible Materials: Reacts violently with strong oxidising agents, nitric acid sulphuric acid.

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

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Acute:

Swallowed: Swallowing may result in irritation of the gastrointestinal tract.

Eye: May be an eye irritant.

Skin: Contact with skin may result in irritation. Will have a degreasing effect on the skin. Can be absorbed through skin with resultant adverse effects.

Inhaled: Breathing in vapour may produce respiratory irritation. In high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged unconsciousness.

Chronic: Prolonged exposure can cause dermatitis.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Avoid contaminating waterways.

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

UN Number:	1915	Proper Shipping Name:	Cyclohexanone
Class:	3	Subsidiary Risk:	None allocated
Packing Group:	III	Hazchem Code:	●3Y
Special Precautions for User:	None		

SECTION 15 REGULATORY INFORMATION

Poisons Schedule : None Allocated

AICS : Listed

Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76:2010): 15

SECTION 16 OTHER INFORMATION

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

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.
