



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: METHYLENE CHLORIDE

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: Dichloromethane, Methylene dichloride, R30, DCM
Manufacturer's Product Code: 16884
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: R40 - Limited evidence of a carcinogenic effect
Safety Phrases: S2 - Keep out of the reach of children
S23 - Do not breathe vapour/mist
S24/25 - Avoid contact with skin and eyes
S36/37 - Wear suitable protective clothing and gloves

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients

<i>Chemical Entity</i>	<i>CAS Number</i>	<i>Proportion (%)</i>
Methylene Chloride	75-09-2	> 99

SECTION 4 FIRST AID MEASURES

FIRST AID TREATMENT

Swallowed: Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Eye: If in eyes, hold eyes open, flood with water for at least 15 minutes. If redness, burning, blurred vision, or swelling persist transport to nearest medical facility for additional treatment.

Skin: If skin or hair contact occurs, remove contaminated clothing and wash skin and hair thoroughly with water and follow by washing with soap if available. Material can be absorbed through skin with resultant toxic effects.

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

Suitable Extinguishing Media: Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry chemical powder or carbon dioxide.

Product: METHYLENE CHLORIDE

Hazards from combustion products: Decomposes on heating emitting toxic fumes, including hydrogen chloride and phosgene.

Precautions for Fire Fighters and Special Protective Equipment: Wear full protective clothing and self-contained breathing apparatus.

Additional Information: Hazchem code 2Z.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations.

Spills and Disposal: For small spills wear protective equipment to prevent skin and eye contact. Wipe up with rag or absorbent paper. For large spills clear area of all unprotected personnel. Work upwind or increase ventilation. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Contain – prevent run off in to drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

Methods and Materials for Containment and Clean Up Procedures: Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated collect material, transfer to suitable, labelled, dry chemical-waste containers and dispose of promptly as hazardous waste.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling and Storage: Avoid skin and eye contact and breathing in vapour, mists and aerosols. Use in well ventilated areas. Wash thoroughly after handling. 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. Incompatible with amines, alkali metals, nitric acid. Material may react on prolonged contact with aluminium, releasing gas and causing subsequent pressure build up.

Flammability: Non-combustible material.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard 174mg/m³ (50ppm) TWA (8hr), Carcinogen Category 3, Skin.

Biological Limit Values: No biological limit allocated.

Personal Protective Equipment:

Respiratory Protection: In instances where concentrations are likely to exceed the exposure limits, 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. Do not enter confined spaces where vapour may have collected. Keep containers closed when not in use.

SECTION 9 IDENTIFICATION

PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES

Appearance	Colourless clear liquid
Odour	Ether like
Vapour Pressure (mmHg @ 24°C):	400
Vapour Density (air = 1)	2.93
Boiling Point (°C):	39.8
Freezing/Melting Point (°C):	-95
Solubility in Water g/l	20 @ 20°C
Specific Gravity (g/ml @ 15°C):	1.33
Flashpoint (°C):	None
Flammability and explosion limits (%):	12 - 19
Auto Ignition Temperature (°C):	556
Percent Volatiles	100

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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Excessive heat, elevated temperatures (>100°C), moisture, high humidity, flames.

Incompatible Materials: Amines, alkali metals, nitric acid. Material may react on prolonged contact with aluminium, releasing gas and causing subsequent pressure build up.

Hazardous Decomposition Products: Decomposes on heating emitting toxic fumes, including hydrogen chloride and phosgene.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Acute:

Swallowed: Expected to be of low toxicity: LD50 > 2100 mg/kg , Rat. Can result in nausea, vomiting and central nervous system depression. If showing signs of central nervous system depression (similar to those of drunkenness), there is a higher likelihood of breathing in vomit and causing lung damage.

Eye: A mild eye irritant.

Skin: Mild irritant. Prolonged contact may cause defatting of skin which can lead to dermatitis. Can be absorbed through the skin with resultant toxic effects.

Inhaled: LC50 (Rat), 53 mg/m³/7hrs. May be an irritant to the mucous membranes of the respiratory tract. Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing 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. Breathing in high concentrations may result in an irregular heart beat and prove suddenly fatal.

Chronic: Available evidence from animal studies indicates repeated or prolonged exposure could result in effects on liver and kidneys. Several major studies in human workers have shown no causal relationship between exposure to methylene chloride and an increase in the incidence of cancer. The material has been classified by the International Agency for Research on Cancer (IARC) as a Group 2B. Group 2B – The agent is possible carcinogenic to humans.

SECTION 12 ECOLOGICAL INFORMATION

Avoid contaminating waterways.

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

UN Number:	1593	Proper Shipping Name:	Dichloromethane
Class:	6.1 Toxic	Subsidiary Risk:	None
Packing Group:	III	Hazchem Code:	2Z
Special Precautions for User:	None		

SECTION 15 REGULATORY INFORMATION

Poisons Schedule : 5

AICS : Listed

Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76:2010) : 37

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 or 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

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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.
