



# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

<b>Product Identifier</b>	<b>METHYLENE CHLORIDE</b>
<b>Other Names</b>	Dichloromethane, Methylene Dichloride, R30, DCM
<b>Manufacturer's Product Code</b>	16884
<b>Recommended Use</b>	Solvent

### Details of Supplier/Manufacturer

Company:	Recochem Inc. ABN: 69 010 485 999
Address:	1809 Lytton Road, Lytton, Queensland 4178
Phone:	(07) 3308 5200 Fax: (07) 3308 5201
Website:	www.recochem.com.au

### Emergency Telephone Numbers

Business Hours:	(07) 3308 5200
After Hours:	1300 131 001
Poisons Information:	Australia: 13 11 26 New Zealand: 0800 764 766

## SECTION 2 HAZARDS IDENTIFICATION

<b>Hazardous chemical</b>	<i>according to classification by Safe Work Australia</i>
<b>Dangerous goods</b>	<i>according to the Australian Code for the Transport of Dangerous Goods by Road and Rail</i>

<b>Signal Word</b>	<b>WARNING</b>
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GHS Classification	Pictogram	Hazard statement
Carcinogenicity, Category 2	 HEALTH HAZARD	H351 Suspected of causing cancer
Skin Irritation, Category 2	 EXCLAMATION MARK	H315 Causes skin irritation
Serious Eye Irritation, Category 2A		H319 Causes serious eye irritation
Specific Target Organ Toxicity, Category 3		H336 May cause drowsiness or dizziness

**Precautionary statements:**

<i>GENERAL</i>	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use
<i>PREVENTATIVE</i>	
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash skin thoroughly after handling
P280	Wear eye protection/face protection and protective gloves
P281	Use personal protective clothing as required
<i>RESPONSE</i>	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P303 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention
P332 + P313	If skin irritation occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
<i>STORAGE</i>	
P405	Store locked up
<i>DISPOSAL</i>	
P501	Dispose of contents/container in accordance with local regulations

**SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS**

**Ingredients Names and Proportions**

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

**SECTION 4 FIRST AID MEASURES**

**Description of necessary first aid measures**

Inhalation:	Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove any contaminated clothing.
Skin Contact:	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. Seek medical assistance.
Eye Contact:	If in eyes, hold eyes open, flood with water for at least 15 minutes. If symptoms persist, transport to nearest medical facility for additional treatment.
Ingestion:	Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

**Symptoms caused by exposure**

Inhalation:	Breathing in vapour may produce irritation to mucous membranes and of the respiratory tract, and 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.
Skin:	May be irritating to skin – redness, dryness and itching. Material can be absorbed through skin with resultant toxic effects.

**Product: METHYLENE CHLORIDE**

Eye:	May be irritating to the eyes - redness, burning, blurred vision, or swelling.
Ingestion:	May result in nausea, vomiting and central nervous system depression.

**Medical attention and special treatment**

Treat symptomatically.

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**SECTION 5 FIRE FIGHTING MEASURES**

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**Suitable extinguishing equipment**

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.

**Specific hazards arising from the chemical**

Decomposes on heating emitting toxic fumes, including hydrogen chloride and phosgene.

**Special protective equipment and precautions for fire fighters**

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing. Hazchem code 2Z.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

Avoid contact with spilled or released material. Avoid breathing in vapours. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Work upwind or increase ventilation.

**Environmental precautions**

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways.

**Methods and materials for containment and cleaning up**

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 and in accordance with local regulations.

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**SECTION 7 HANDLING AND STORAGE**

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**Precautions for safe handling**

Avoid breathing of or contact with material. Use in well ventilated areas. Wash thoroughly after handling. 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.

**Conditions for safe storage, including any incompatibilities**

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

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**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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**Exposure control measures**

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia - General dust: 174mg/m<sup>3</sup> (50ppm) TWA (8hr), Carcinogen Category 3, Skin

**Biological monitoring**

No biological limit allocated.

**Engineering controls**

Ensure that adequate ventilation is provided. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

**Individual protection measures**

**Product: METHYLENE CHLORIDE**

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene.
Respiratory protection:	If inhalation risk exists an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.
Thermal hazards:	Not applicable.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Colourless clear liquid
Odour:	Ether like
Odour threshold (ppm):	Data not available
pH:	Data not available
Melting point/freezing point (°C):	-95
Initial boiling point and boiling range (°C):	39.8
Flash point (°C):	None
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Non-combustible
Upper/lower flammability or explosive limits (%):	12 - 19
Vapour pressure (mmHg @ 24°C):	400
Vapour density (air = 1):	2.93
Density (g/ml @ 15°C):	1.33
Solubility in water (g/L @ 20°C):	20
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	556
Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm <sup>2</sup> /s @ 20°C):	Data not available

**SECTION 10 STABILITY AND REACTIVITY****Reactivity**

Stable under normal conditions of use.

**Chemical stability**

Stable under normal conditions of use.

**Possibility of hazardous reactions**

Stable under normal conditions of use.

**Conditions to avoid**

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

**Incompatible materials**

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

**Product: METHYLENE CHLORIDE****Hazardous decomposition products**

Decomposes on heating emitting toxic fumes, including hydrogen chloride and phosgene.

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity:	Expected to be of low toxicity. Oral LD50 (rat) > 2000mg/kg Inhalation LD50 (mouse) 4h - 86mg/L Dermal LD50 (rat) > 2000mg/kg
Skin corrosion/irritation:	Can be absorbed through the skin with resultant toxic effects.
Serious eye damage/irritation:	A mild irritant.
Respiratory or skin sensitisation:	Not expected to be a sensitiser
Germ cell mutagenicity:	Not expected to be a mutagen
Carcinogenicity:	Methylene Chloride is probably carcinogenic to humans (IARC Group 2A).
Reproductive toxicity:	Not expected to impair fertility
Specific Target Organ Toxicity (STOT) – single exposure:	Inhalation-May cause drowsiness or dizziness.-Central nervous system Acute oral toxicity-Nausea, Vomiting, risk of aspiration upon vomiting. Aspiration may cause pulmonary oedema and pneumonitis. Acute inhalation toxicity-Possible damages:, mucosal irritations
Specific Target Organ Toxicity (STOT) – repeated exposure:	Available evidence from animal studies indicates repeated or prolonged exposure could result in effects on liver and kidneys.
Aspiration hazard:	Data not available

**SECTION 12 ECOLOGICAL INFORMATION****Ecotoxicity**

Avoid contaminating waterways.

Acute toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

Chronic toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

**Persistence and degradability**

Biodegradable.

**Bioaccumulative potential**

Data not available.

**Mobility in soil**

**Product: METHYLENE CHLORIDE**

Soluble with water.

**Other adverse effects**

Data not available.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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<b>UN number:</b>	1593
<b>Proper shipping name:</b>	Dichloromethane
<b>Australian Dangerous Goods class:</b>	6.1
<b>Australian Dangerous Goods packing group:</b>	III
<b>Hazchem code:</b>	2Z

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**SECTION 15 REGULATORY INFORMATION**

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Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	5
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	37

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**SECTION 16 OTHER INFORMATION**

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Date of preparation:	18/05/2020
Revision number:	5
Changes in this revision:	Review of SDS

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This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Recochem on (07) 3308 5200.

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