

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

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

Details of Supplier/Manufacturer

Company:	Sydney Solvents ABN: 51 104 642 695
Address:	Unit 3, 10 Production Place, Jamisontown NSW 2750
Phone:	02 4722 5060
Website:	www.sydney solvents.com.au



Emergency Telephone Numbers

Business Hours:	02 4722 5060
After Hours:	Chemcall 1800 127 406
Poisons Information:	Australia: 13 11 26 New Zealand: 0800 764 766

SECTION 2 HAZARDS IDENTIFICATION

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

Signal Word	WARNING
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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.

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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.

SECTION 5 FIRE FIGHTING MEASURES

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.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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.

SECTION 7 HANDLING AND STORAGE

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.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia - General dust: 174mg/m³ (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

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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 ² /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.

SECTION 13 DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14 TRANSPORT INFORMATION

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

SECTION 15 REGULATORY INFORMATION

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

SECTION 16 OTHER INFORMATION

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

This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Sydney Solvents 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 Sydney Solvents on 02 4722 5060
