

SAFETY DATA SHEET

PRODUCT NAME: METHYLENE CHLORIDE

Issue Date: Sep-24

SECTION 1 IDENTIFICATION

Product Name: Methylene Chloride
Other Names: Dichloromethane; Methane, dichloro-
Product Code: CMC20, ZMCHLO
Uses: Solvent (extraction agent); Blowing agent in manufacture of polyurethane.
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 079744971 Email: info@hamchem.nz Web: www.hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

SECTION 2 HAZARD IDENTIFICATION



GHS Classifications

Acute Toxicity (Oral) – Category 4
Skin Corrosion Irritation – Category 2
Serious Eye Damage Irritation – Category 2
Carcinogenicity – Category 2
Specific Target Organ Toxicity (Repeated Exposure) – Category 2

Signal Word: Danger

Hazard Statements

H302 – Harmful if swallowed
H315 – Causes skin irritation
H319 – Causes serious eye irritation
H351 – Suspected of causing cancer
H373 – May cause damage to organs through prolonged or repeated exposure

Recautionary Statements - Prevention

P201 – Obtain special instructions before use
P202 – Do not handle until all safety precautions have been read and understood
P260 – Do not breathe fume/mist/vapours/spray
P264 – Wash hands thoroughly after handling
P270 – Do not eat, drink or smoke when using this product
P280 – Wear protective gloves/clothing and eye/face protection

Response

P308 + P313 - If exposed or concerned: Get medical advice.
P301 + P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P330 - Rinse mouth.

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P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 - If skin irritation occurs: Get medical advice.

P362 - Take off contaminated clothing and wash before re-use.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice.

P314 – Get medical advice/attention if you feel unwell

Storage

P405 – Store locked up out of reach of children.

Disposal

P501 – Dispose of contents/container to a solvent recycling facility or approved landfill in accordance with any local regulations

SECTION 3 COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
Dichloromethane	75-09-2	>99.8%

SECTION 4 FIRST AID MEASURES

Consult the National Poisons Centre (0800 764 766 – 0800 POISON) or a Doctor in every case of suspected poisoning. If medical advice is needed, have product container or label at hand.

If swallowed: Rinse mouth with water. Do NOT induce vomiting. Call a Poison Centre or Doctor for advice.

If on skin: Remove immediately all contaminated clothing. Wash affected area with plenty of water at least 15 minutes followed by soap and water. If irritation persists, get medical advice.

If inhaled: Move person to fresh air and keep warm and at rest until recovered. Call a Poison Centre or Doctor for advice if person feels unwell.

If in eyes: Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.

Advice to Doctor: Treat symptomatically. Do not administer catecholamines because of the cardiac effect caused by this product.

SECTION 5 FIRE FIGHTING MEASURES

Hazchem 2Z

Extinguishing Media: Use water fog, mist or alcohol-resistant foam. Use dry chemical powder, carbon dioxide, sand or earth for small fires only. Do NOT use water in a jet.

Fire and Explosion Hazard: Forms flammable mixture with air. In case of fire, avoid breathing smoke. Smoke and toxic/corrosive gases (hydrogen cyanide, phosgene, chlorine, carbon oxides) evolved on combustion. Prevent extinguishing water from getting into the aquatic environment.

Specific Hazards: Cool fire exposed containers by spraying with water.

Fire-Fighting Equipment: Wear self-contained breathing apparatus and personal protective clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Response Procedure: Avoid accidents, clean up immediately. Slippery when spilt. Personnel involved in the clean-up should wear full protective clothing as listed in the Exposure Controls & Personal Protection section of this SDS. Eliminate all sources of ignition. Increase ventilation. Use clean, non-sparking tools and equipment.

Clean Up Procedures: Collect with absorbent, non-combustible material into suitable containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

Containment: Stop leak if safe to do so.

Environmental Precautionary Measures: Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Agency or your local Waste Authority.

Evacuation Criteria: Evacuate all unnecessary personnel.

Personal Precautionary Measures: Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing as listed in Exposure Controls & Personal Protection section of SDS.

SECTION 7 HANDLING & STORAGE

Handling: Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Avoid spilling. Keep away from heat, sparks and open flame. Risk of vapour concentration on the floor and in low-lying areas.

Storage: Store in a cool, dry, well-ventilated area out of reach of children. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Handle this material separating from light metal, strong base and oxidizing materials. Avoid long storage periods since the product degrades with age. Keep away from heat, sparks and open flame. Protect from light, including direct sun rays. Store in a cool place.

Container: The recommended vessel is a tank made of Stainless Steel. Use the corrosion-proof materials for the lid of the vessel or the packing of the plug. Fluorine resin sheet is recommended.

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SECTION 8 EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure standards: The following Workplace Exposure Standards (WES) have been set by Worksafe New Zealand – Methylene Chloride (Dichloromethane); TWA 50ppm (174mg/m³)

Exposure Limits: No data available

Biological Limits: No information available on biological limit values for this product.

Engineering Measures: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred as it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.

Personal Protective Equipment: RESPIRATOR – Use respiratory equipment with gas filter, type AX. EYES – Wear approved safety goggles. HANDS – Protective gloves should be used if there is a risk of direct contact or splash. CLOTHING – Chemical-resistant coveralls, splash apron and safety footwear.

Work Hygienic Practices: Provide eyewash station and safety shower.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear colourless liquid
Odour:	Ether-like
Odour threshold:	Not available
pH:	Not applicable
Melting point/Freezing point (°C):	-95
Boiling point/Boiling range (°C):	40
Flash point (°C):	Non flammable
Flammability (solid, gas):	Not applicable
Upper/lower flammability limits in air (%v/v):	13 – 22
Vapour pressure (hPa at 25°C):	584
Vapour density (air =1):	3.53
Relative density at 15°C, g/cc:	1.32
Solubility in water:	13.2 g/L
Partition coefficient: n-octanol/water:	1.25
Auto-ignition temperature (°C):	600
Decomposition temperature (°C):	120
Dynamic viscosity (°C):	0.425
Volatile organic carbon content:	Not available
Evaporation rate (nBuAc =1):	1.8

SECTION 10 STABILITY & REACTIVITY

Chemical Stability: Product is stable under normal conditions of use, storage and temperature.

Hazardous decomposition products: Vinyl Chloride, hydrogen chloride, phosgene and carbon monoxide.

Hazardous polymerization: Will not polymerize.

Incompatibles: Alkali metals, Strong Acids, Organic – aromatic, Alkali Earth Metals, Powdered Metal, Amides, Organic Peroxides/Hydroperoxides

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.

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SECTION 11 TOXICOLOGICAL INFORMATION

Toxicity data: ACUTE TOXICITY: Oral LD50 (rat) 2,100mg/kg. Inhalation LC50 (rat) 53mg/L (6h).

Long term Exposure: May cause unconsciousness and affect liver and kidney.

General Information: Known or suspected carcinogen for humans.

Mutagenicity: Slightly positive to bacteria, mould and mammals' cells.

Medical Symptoms: Skin irritation, upper respiratory irritation, drowsiness, dizziness, disorientation, vertigo. Nausea, vomiting, unconsciousness, central nervous system depression.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity (Aquatic & Terrestrial): Guppy LC50 (14day) 294mg/kg. Fathead Minnow LC50 (96hr) 310mg/kg (still water). Fathead Minnow LC50 (96hr) 193mg/kg (running water). Killifish LC50 (48hr) 331mg/kg.

Persistence & degradability: Slight microbial biodegradability.

Bioaccumulative potential: Low bioaccumulation for carps.

Mobility in soil: No data available

Environmental Fate: Methylene chloride exists for 0.41years and decomposes with hydroxyl radicals produced by photochemistry in atmosphere. ODP (0.007) and HGWP (0.002) coefficients are very low values.

SECTION 13 DISPOSAL CONSIDERATIONS

General Information: Dispose of in accordance with all local, regional, national and international regulations. All empty packaging should be disposed of in accordance for the above, or recycled/reconditioned at an approved facility.

Special Precautions for Landfill: Contact a specialist disposal company or the local waste regulator for advice. Incinerate at an approved site following all local regulations in suitable combustion chamber.

SECTION 14 TRANSPORT INFORMATION

UN Number:	1593
UN Proper Shipping name:	Dichloromethane
UN Dangerous Goods Class:	6.1 – Toxic Substance
UN Packing group:	III
Hazchem Code:	2Z
Special precautions:	No data available

SECTION 15 REGULATORY INFORMATION

HSNO Approval number: HSR001540
HSNO Classifications: 6.1D, 6.3A, 6.4A, 6.7B, 6.9B

SECTION 16 OTHER INFORMATION

End of SDS.

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