

SOLVENT SUPPLIES LTD

33 Miro Street
Otaki NZ

Website: www.solventsupplies.co.nz

Fax: (04) 902 1857

Email: ss1994ltd@gmail.com

Section 1: Identification of the Material and Supplier

Product Name: Methylene Chloride
Other Names: Dichloromethane, Methane, Dichloro-
Recommended use: Solvent (extraction agent), blowing agent in manufacture of polyurethane.
Company Name: Solvent Supplies Limited
Address: 33 Miro Street, Otaki, New Zealand
PO Box 2019
Raumati Beach
Paraparaumu

Fax: 04 902 1857

Email: ss1994ltd@gmail.com

Emergency Telephone:
New Zealand:

0800 737 363 Monday to Friday 8.00am – 4.30pm
New Zealand Poisons Centre: 0800 764 766

Australia

1800 738 383
Australian Poisons Centre: 1800 131 126

Section 2: Hazards Identification

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.

EPA New Zealand Approved Code: HSR001540

Refer to www.epa.govt.nz for Controls for this substance.

HSNO Hazard Classification: 6.1D (Oral), 6.3A, 6.4A, 6.7B, 6.9B (Inhalation), 9.3C



Signal Word: DANGER

Hazard statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Methylene Chloride ©Solvent Supplies Limited

Date: September 2019

Review: March 2024

H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H433	Harmful to terrestrial vertebrates.

Prevention Statements:

P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe vapors.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves and protective eye/face protection.
P281	Use personal protective equipment as required.

Response Statements:

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.
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.

Storage Statement:

P405	Store locked up.
------	------------------

Disposal Statement:

P501	Dispose of product and container in accordance with local regulations.
------	--

Section 3: Composition/Information on Ingredients

Common name	CAS No:	% w/w
Dichloromethane	75-09-2	≤ 99.8

Section 4: First Aid Measures

Consult the National Poisons Centre, telephone 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.

Ingestion:	Rinse mouth with water. Do NOT induce vomiting. Call a Poison Centre or doctor for advice.
Inhalation:	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.
Skin:	Remove immediately all contaminated clothing and footwear. Wash affected area with plenty of water followed by soap and water. If irritation persists, get medical advice.
Eyes:	Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.

NOTES ON PHYSICIAN: Treat symptomatically. Do not administer catecholamines because of the cardiac effect caused by this product.

Section 5:	Fire Fighting Measures
------------	------------------------

Extinguishing Media:	Use water fog or 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 & Explosion Hazards:	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.
Specific Hazards:	Cool fire exposed containers by spraying with water.
Fire-fighting equipment:	Wear personal protection equipment and self-contained breathing apparatus.

Section 6:	Accidental Release Measures
------------	-----------------------------

Spills:

Contain spill. Avoid run off into drains or sewers. Do not contaminate watercourses or the ground. Wear personal protective equipment. Avoid contact with skin and eyes. Shut off leak if safe to do so. Remove or isolate ignition sources. Ventilate contaminated area. Isolate hazard area and keep unnecessary and unprotected people away from area. Stay upwind and keep out of low-lying areas.

For large spills (more than a drum): Recover liquid and transfer by mechanical means to labeled salvage tank that can be sealed for recovery or disposal of product. Do not flush away residues with water. Allow residues to evaporate. Remove any contaminated soil and dispose of safely by waste management company.

For small spills: Absorb with an appropriate material e.g. vermiculite and dispose of waste safely in a labeled sealed container for recovery or disposal

If contamination of drains, sewers or waterways occurs immediately notify Emergency Services (111).

Disposal:

Dispose of contaminated waste or product to a solvent recycling facility or to an approved landfill in accordance with local regulations.

Section 7: Handling and Storage

Handling:

Read label before use. Keep container closed when not in use. Use only in well ventilated areas Provide earthing and safe electrical equipment.

Keep away from heat and sources of ignition. Avoid breathing vapors or direct contact with product. Wear personal protective equipment. Wash hands and exposed skin after handling. When using do not eat, drink or smoke.

Storage:

Ensure all storage areas have adequate fire-fighting equipment. Store locked up in closed original container in a cool, dry and well ventilated place, away from sunlight, ignition sources, heat, incompatible substance, aerosols, other flammables, oxidizing agents and corrosives, out of reach of children and away from food, drink and animal foodstuffs.

Vapour is heavier than air. Take precautions to avoid accumulation of vapors in pits and confined spaces.

Recommended materials: Protected metals (steel, iron), galvanized steel.

Unsuitable materials: Light metals and alloys, colourless glass, plastics.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

A NZ Workplace Exposure Standard (WES) have been set for a component in this substance:

	WES-TWA	WES-STEL
Dichloromethane	50 ppm (174 mg/m ³)	-

Engineering Controls:

Use only in a well ventilated area. A half face filter mask suitable for organic gases and vapors (Type-A material) may be suitable for low concentration level exposures. Otherwise a full-face mask fitted with organic vapor cartridge. Where air filtering respirators are unsuitable (e.g. air-borne concentrations are high, risk or oxygen deficiency, confined space) use positive pressure breathing apparatus.

Personal Protection Equipment (PPE):

Wear impervious protective clothing. Safety shoes or boots need to be chemically resistant. Wear appropriate chemical resistant gloves e.g. neoprene. Wear chemical goggles or safety glasses with side shields. Refer to the relevant AS/NZ standards for appropriate personal protective equipment.

Section 9: Physical and 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 limits (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 and Activity
-------------	------------------------

Stability:	Stable under normal conditions of storage and use.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Exposure to light and moisture.
Incompatibility (materials to avoid):	Acids, bases, alkali metals, finely divided metals, aluminum, magnesium, zinc and titanium.
Hazardous decomposition products:	Toxic/corrosive gases (hydrogen cyanide, phosgene, chlorine, carbon oxides) evolved on combustion.
Hazardous polymerization:	Not known to occur.

Section 11:	Toxicological Information
-------------	---------------------------

Potential Health Effects:
This section includes possible adverse effects which might occur if this product is not handled in the recommended manner.

Acute Toxicity:	Identified as harmful by ingestion. Possible symptoms of nausea, diarrhea and vomiting.
Aspiration Hazard:	Not classified with aspiration hazard.
Respiratory Irritation:	Inhalation of vapours may be irritating to respiratory system.
Skin Corrosion/Irritation:	Skin irritant. Prolonged or repeated exposure may cause defatting of the skin which can lead to dermatitis.
Serious Eye Damage/Corrosion:	Irritating.
Respiratory or Skin Sensitization:	Not classified as contact sensitizer.

Germ Cell Mutagenicity:	Not classified with mutagenic properties.
Carcinogenicity:	Product is suspected human carcinogen.
Reproductive Toxicity:	Not classified for adverse effects on fertility or the unborn child.
Specific Organ Toxicity (Repeated and Single Exposure):	If high concentrations inhaled, or repeated/prolonged exposure, may cause central nervous system depression, dizziness, formation of carboxyhaemoglobin and effects on liver and kidneys.
Narcotic Effects:	May cause dizziness and drowsiness if inhaled.
Toxicological Data:	Dichloromethane: Oral (rat) LD ⁵⁰ : 1410 mg/kg
Additional information:	Not available.

Section 12:	Hazard Identification
-------------	-----------------------

Eco-Toxicity:	Product is classified as harmful to terrestrial vertebrates. Avoid release into the environment.
Persistence and Biodegradability:	Not readily biodegradable. Slight absorption to soil and sediments. Hydrolyses slowly in water; half-life 1.5 years.
Potential for Bio-Accumulation:	Not expected to bio-accumulate.
Mobility in Soil:	Product is slightly soluble in water. May contaminate groundwater.
Other Adverse Effects:	Not available.

Ecotoxicity data:

Dichloromethane:	Rat, Oral:	LD ⁵⁰	1410 mg/L
	<i>Pimephales Promelas:</i>	LC ⁵⁰ (96 hr)	193 mg/L
	<i>Daphnia Magna</i>	EC ⁵⁰ (48 hr)	27 mg/L
	Blue Green Alga	EC ⁵⁰ (72 hr)	550 mg/L

Section 13:	Disposal Considerations
-------------	-------------------------

Disposal: Recover and recycle product whenever possible. Send clean, dry drums to recycling facility or metal scrap re-claimer. Dispose of waste in accordance with Regional Authority or local council bylaws.

Special Precautions: Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld un-cleaned drums. Do not use empty drums for storing other products.

Section 14:	Transport Information
-------------	-----------------------

This product is classified as a Dangerous Goods Class 6.

Please consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433-2012 Transport of Dangerous Goods on Land for information.

Transport Information:

UN No	1593
Proper Shipping Name:	DICHLORMETHANE
Class:	6.1
Sub Risk:	-
Packing Group:	III
Hazchem:	2Z
Marine Pollutant:	No



Section 15:	Regulatory Information
-------------	------------------------

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.

HSNO Substance Approval Code: HSR001540; Methane, dichloro-

Refer to Section 2 for hazardous classifications and to www.epa.govt.nz for Controls and Conditions.

For additional compliance information, refer to Worksafe NZ at www.worksafe.govt.nz

Alternative Group Standard approvals can also be used:

HSR002512; Additive, Process Chemicals and Raw Materials (Toxic [6.7]) Group Standard 2017.

HSR002655; Solvents (Toxic [6.7]) Group Standard 2017.

Section 16:	Other Information
-------------	-------------------

Issue Date: September 2019

Replaces: Not applicable

Reasons for Issue: New SDS

Abbreviations:

CAS Number: Chemical Abstracts Number

EPA: Environmental Risk Management Authority

HSNO: Hazardous Substance & New Organisms

STEL: Short Term Exposure Limit (15 minute exposure period)

TWA: Time Weighted Average

WES: Workplace Exposure Standard

References:

Chemical classification and information database (CCID); www.epa.govt.nz

Supplier Safety Data Sheet:

Methylene Chloride ©Solvent Supplies Limited

Date: September 2019

Review: March 2024

- ✦ Workplace Exposure Standards and Biological Exposure Indices
- ✦ Transport of Dangerous Goods on Land NZS 5433
- ✦ Preparation of Safety Data Sheets – Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1-09-06)
- ✦ Assigning a hazardous substance to a group standard
- ✦ Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH)

Contact Person/Point:

IMPORTANT ADVICE: A MSDS summarizes our best knowledge of health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information contained in this SDS is believed to be correct but is not guaranteed. Prior to using the product(s) referred to in this SDS, each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier listed in section 1 of the SDS. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. Solvent Supplies Limited does not accept any liability either directly or indirectly for any losses suffered in connection with the use and application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

Safety data sheets are updated frequently. Please ensure you have a current copy.

Disclaimer:

Before using this product, read its label carefully to ensure that you understand its contents. The information contained herein is based on data considered accurate and reliable to the best of our knowledge and belief of the date compiled. However no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use hereof. Solvent Supplies Limited assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such users or vendor assume all risks associated with the use of the material. It is the user's responsibility to satisfy themselves as to the suitability and completeness of the information for their own particular use. The users must determine whether the use of the information and data is in accordance with local laws and regulations.