

SAFETY DATA SHEET

Classified as hazardous according to criteria of EPA New Zealand

Section 1 - Identification

Product Name <u>Methylene chloride</u>

Product Code ACR11346, ACR32676, ACR32685, ACR34846, ACR38378, ACR40692, AJA1355,

AJA186, AJA2319, AJA3449, AJA3472, AJA3516, AJA5113, AJA560, AJA709,

AJA7-A3508, ALF039116, BAK9264, BDH23366, BDH23373, BSPDL973,

CSIM-CS5283X5, FSBD/1850, FSBD/1852, FSBD/1853, FSBD/1854, FSBD/1855, FSBD/1856, FSBD/1857, FSBD/1858, FSBD/1859, FSBD/1861, FSBD143, FSBD150,

FSBD151, FSBD154, MKT4879, MKTH485, TCH21409

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Recommended Use Laboratory chemicals.

Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

- 6.7B Substances that are suspected human carcinogens
- 6.1D Substances that are acutely toxic (Oral)
- 6.3A Substances that are irritating to the skin
- 6.4A Substances that are irritating to the eye
- 6.9B Substances that are harmful to human target organs or systems
- 9.3C Substances that are harmful to terrestrial vertebrates

Classified as hazardous according to criteria of EPA New Zealand

HSNO Approval Number HSR001540

GHS Classification

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Acute Oral Toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 2

Carcinogenicity

Category 2

Category 2

Category 2

Environmental hazards

NZ-000187 Version 2 04-Jul-2020 Page 1/8

Label Elements



Signal Word

Warning

Hazard Statements

H351 - Suspected of causing cancer

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H433 - Harmful to terrestrial vertebrates

Precautionary Statements

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P403 - Store in a well-ventilated place

P501 - Dispose of contents/ container to an approved waste disposal plant

Other information

No information available

Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %
Methylene chloride	75-09-2	>95

Section 4 - First Aid Measures

Inhalation Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

General Advice If symptoms persist, call a physician.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting

NZ-000187 Version 2 04-Jul-2020 Page 2/8

Notes to Physician

Treat symptomatically. Symptoms may be delayed.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

Hazardous Combustion Products

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Exposure limits

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

Component	New Zealand WEL		
Methylene chloride	TWA: 50 ppm		
	TWA: 174 mg/m ³		

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

NZ-000187 Version 2 04-Jul-2020 Page 3 / 8

Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard **Eye Protection**

AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Viton (R).	See manufacturers	-	AS/NZS 2161.1	(minimum requirement)
	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

> other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices

Recommended Filter type: low boiling organic solvent Type AX Brown conforming to EN371 (or AUS/NZ equivalent) Recommended half mask:-

Valve filtering: EN405 or Half mask: EN140 plus filter, EN 141 (or AUS/NZ equivalent)

Liquid

(Air = 1.0)

Liquid

When RPE is used a face piece Fit Test should be conducted

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

Environmental exposure controls No information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Colorless Liquid **Physical State**

No information available Odor **Odor Threshold** No data available рΗ Not applicable Melting Point/Range -97 °C / -142.6 °F

Softening Point No data available

39 - 40 °C / 102.2 - 104 °F **Boiling Point/Range** No information available

Flash Point Method - No information available

Evaporation Rate No data available Flammability (solid,gas) Not applicable

No data available **Explosion Limits**

No data available **Vapor Pressure** No data available **Vapor Density**

Specific Gravity / Density No data available **Bulk Density** Not applicable Water Solubility Slightly soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Methylene chloride 1.25

Autoignition Temperature No data available **Decomposition Temperature** No data available No data available **Viscosity**

No information available **Explosive Properties Oxidizing Properties** No information available

NZ-000187 Version 2 Page 4/8 04-Jul-2020

Other information

Molecular Formula C H2 Cl2
Molecular Weight 84.93

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products, Excess heat.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization Hazardous polymerization does not occur.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product Information (a) acute toxicity;

Oral Based on available data, the classification criteria are not met

DermalNo data availableInhalationNo data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylene chloride	LD50 > 2000 mg/kg (rat)		LC50 = 53 mg/L (Rat) 6 h LC50 = 76000 mg/m ³ (Rat) 4 h

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory SkinNo data available
No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; Category 2

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	Australia	New Zealand	New South Wales	Western Australia	IARC	EU	UK	Germany
Methylene chloride		Suspected			Group 2A			
		carcinogen						

(g) reproductive toxicity; No data available (h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available. (j) aspiration hazard; No data available

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

NZ-000187 Version 2 04-Jul-2020 Page 5 / 8

delayed

Section 12 - Ecological Information

Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Methylene chloride	Pimephales promelas:	EC50: 140 mg/L/48h	EC50:>660 mg/L/96h	EC50: 1 mg/L/24 h
	LC50:193 mg/L/96h	_	_	EC50: 2.88 mg/L/15 min

Persistence and Degradability

Persistence Persistence is unlikely, based on information available.

Bioaccumulative Potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)				
Methylene chloride	1.25	6.4 - 40 OECD 305C				
Mobility	The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility. Disperses rapidly in air					
Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors					
Persistent Organic Pollutant	This product does not contain any known or suspected substance					

This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

Waste from Residues/Unused

Ozone Depletion Potential

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure

conformity with all applicable regulations.

Contaminated Packaging Dispose of this container to hazardous or special waste collection point.

 Other Information
 Disposal agencies or waste contractors must comply with the New Zealand Hazardous

Substances (Disposal) Regulations . Waste codes should be assigned by the user based

on the application for which the product was used. Do not empty into drains.

Section 14 - Transport Information

IMDG/IMO

UN-No UN1593

Proper Shipping Name DICHLOROMETHANE

Hazard Class 6.1 Packing Group III

NZS 5433:2012

UN-No UN1593

Proper Shipping Name DICHLOROMETHANE

Hazard Class 6.1
Packing Group III

Component	Hazchem Code
Methylene chloride	2Z
75-09-2 (>95)	

<u>IATA</u>

UN-No UN1593

Proper Shipping Name DICHLOROMETHANE

Hazard Class 6.1
Packing Group

NZ-000187 Version 2 04-Jul-2020 Page 6 / 8

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	HSNO Approval Number		
Methylene chloride	HSR001540		

International Inventories X = listed

Component	NZIoC	AICS	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
Methylene chloride	Х	Х	200-838-	-	Х	Х	-	Χ	Χ	Χ	KE-2389
			9								3

Prohibition or notification/licensing Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

Component	New Zealand		
Methylene chloride	Suspected carcinogen		

Section 16 - Other Information

This safety data sheet complies with the requirements of WorkSafe New Zealand Regulations

Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

NZS 5433:2012 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% **WEL** - Workplace Exposure Limit

DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

VOC (volatile organic compound)

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical

Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50%

ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment

NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

NZ-000187 Version 2 04-Jul-2020 Page 7 / 8

Revision Date 04-Jul-2020 Revision Summary 04-Jul-2020 Not applicable.

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End of Safety Data Sheet

NZ-000187 Version 2 04-Jul-2020 Page 8/8