

Dy-Mark

Chernwatch: 117315 Version No: 9.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 17/06/2016 Print Date: 26/07/2016 Initial Date: Not Available S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### **Product Identifier**

Product name	Dy-Mark Flawchek Step 1 Preclean
Synonyms	19010101, 19012001
Proper shipping name	DICHLOROMETHANE
Other means of identification	Not Available

### Relevant identified uses of the substance or mixture and uses advised against

	The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting
Relevant identified uses	consider control of exposure by mechanical ventilation.
	Flaw detector. Part one of a four part process; this solvent is used as a pre-cleaner.

## Details of the supplier of the safety data sheet

Registered company name	Dy-Mark
Address	89 Formation Street Wacol QLD 4076 Australia
Telephone	+61 7 3271 2222
Fax	+61 7 3271 2751
Website	Not Available
Email	info@dymark.com.au

### Emergency telephone number

0,1	
Association / Organisation	Not Available
Emergency telephone numbers	+61 403 186 708
Other emergency telephone numbers	Not Available

### **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

## HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0	1	
Toxicity	2		0 = Minimum
Body Contact	2	1	1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	2		4 = Extreme

Poisons Schedule	S5
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Carcinogenicity Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
Label elements	



SIGNAL WORD WARNING

## Hazard statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H351	Suspected of causing cancer.

## Supplementary statement(s)

Not Applicable

## Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

## Precautionary statement(s) Storage

P405 Store locked up.

## Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
75-09-2	>60	methylene chloride

## **SECTION 4 FIRST AID MEASURES**

## Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If furnes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> </ul> Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: <ul> <li>INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means. Avoid giving milk or oils. Avoid giving milk or oils.</li></ul>

#### Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

#### BASIC TREATMENT

- -----
- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

for intoxication due to Freons/ Halons;

- A: Emergency and Supportive Measures
- Maintain an open airway and assist ventilation if necessary
- Treat coma and arrhythmias if they occur. Avoid (adrenaline) epinephrine or other sympathomimetic amines that may precipitate ventricular arrhythmias. Tachyarrhythmias caused by increased myocardial sensitisation may be treated with propranolol, 1-2 mg IV or esmolol 25-100 microgm/kg/min IV.
- Monitor the ECG for 4-6 hours
- B: Specific drugs and antidotes:
- There is no specific antidote
- C: Decontamination
- ▶ Inhalation; remove victim from exposure, and give supplemental oxygen if available
- Ingestion; (a) Prehospital: Administer activated charcoal, if available. DO NOT induce vomiting because of rapid absorption and the risk of abrupt onset CNS depression. (b) Hospital: Administer activated charcoal, although the efficacy of charcoal is unknown. Perform gastric lavage only if the ingestion was very large and recent (less than 30 minutes)
- D: Enhanced elimination:

There is no documented efficacy for diuresis, haemodialysis, haemoperfusion, or repeat-dose charcoal

- POISONING and DRUG OVERDOSE, Californian Poison Control System Ed. Kent R Olson; 3rd Edition
- Do not administer sympathomimetic drugs unless absolutely necessary as material may increase myocardial irritability.
- No specific antidote.
- Because rapid absorption may occur through lungs if aspirated and cause systematic effects, the decision of whether to induce vomiting or not should be made by an attending physician.
- If lavage is performed, suggest endotracheal and/or esophageal control.
- Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.
- Treatment based on judgment of the physician in response to reactions of the patient

## SECTION 5 FIREFIGHTING MEASURES

#### Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Non flammable liquid.</li> <li>However vapour will burn when in contact with high temperature flame.</li> <li>Ignition ceases on removal of flame.</li> <li>May form a flammable / explosive mixture in an oxygen enriched atmosphere</li> <li>Heating may cause expansion/vapourisation with violent rupture of containers</li> <li>Decomposes on heating and produces corrosive fumes of hydrochloric acid, carbon monoxide and small amounts of toxic phosgene.</li> <li>Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.May emit poisonous fumes.</li> </ul>	

## SECTION 6 ACCIDENTAL RELEASE MEASURES

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

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
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 Major Spills

 Clear area of personnel and move upwind.
 Alert Fire Brigade and tell them location and nature of hazard.
 Wear breathing apparatus plus protective gloves.
 Prevent, by any means available, spillage from entering drains or water courses.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

Safe handling	<ul> <li>Contains low boiling substance:</li> <li>Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately.</li> <li>Check for bulging containers.</li> <li>Vent periodically</li> <li>Always release caps or seals slowly to ensure slow dissipation of vapours</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

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

	DO NOT use aluminium or galvanised containers
	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> </ul>
	<ul> <li>Polyliner drum.</li> </ul>
	Packing as recommended by manufacturer.
	For low viscosity materials
Suitable container	Drums and jerricans must be of the non-removable head type.
	Where a can is to be used as an inner package, the can must have a screwed enclosure.
	For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):
	Removable head packaging;     Cans with friction closures and
	Cans with incluon closures and     Iow pressure tubes and cartridges
	may be used.
	Methylene chloride
	▶ is a combustible liquid under certain circumstances even though there is no measurable flash point and it is difficult to ignite
	its is flammable in ambient air in the range 12-23%; increased oxygen content can greatly enhance fire and explosion potential
	contact with hot surfaces and elevated temperatures can form fumes of hydrogen chloride and phosgene
	reacts violently with active metals, aluminium, lithium, methanol,, peroxydisulfuryl difluoride, potassium, potassium tert-butoxide, sodium
	<ul> <li>forms explosive mixtures with nitric acid</li> <li>is incompatible with strong oxidisers, strong caustics, alkaline earths and alkali metals</li> </ul>
Storage incompatibility	<ul> <li>Is incompanie with storing overlapsing, storing destruct, and into data in the data in th</li></ul>
	may generate electrostatic charge due to low conductivity
	Segregate from:
	powdered metals such as aluminium, zinc and
	▶ alkali metals such as sodium, potassium and lithium.
	May attack, soften or dissolve rubber, many plastics, paints and coatings
	► Segregate from alcohol, water.



X — Must not be stored together

**0** — May be stored together with specific preventions

+ — May be stored together

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA		STEL	Peak		Notes
Australia Exposure Standards	methylene chloride	Methylene chloride	174 m	g/m3 / 50 ppm	Not Available	Not Ava	ailable	Sk
EMERGENCY LIMITS								
Ingredient	Material name			TEEL-1	TEEL-2		TEEL-3	
methylene chloride	Methylene chloride; (Dichloro	methane)		Not Available	Not Available		Not Availabl	e

Ingredient	Original IDLH	Revised IDLH
methylene chloride	10,000 ppm	2,000 ppm

xposure controls	
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Suitability and durability of glove type is dependent on usage.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>Eyewash unit.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>
Thermal hazards	Not Available

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

Dy-Mark Flawchek Step 1 Preclean

Material	CPI
PE/EVAL/PE	А
PVA	А
TEFLON	В
BUTYL	С
CPE	С
NATURAL RUBBER	С
NEOPRENE	С
VITON	С
VITON/BUTYL	С
VITON/CHLOROBUTYL	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final

selection must be based on detailed observation. -\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as

"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Colourless non flammable liquid; does not mix with water. Highly volatile. Has a penetrating, ether-like odour. Mixes with alcohol, organic solvents.			
Physical state	Liquid	Relative density (Water = 1)	1.33	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature	556	

#### **Respiratory protection**

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AX-AUS / Class 1	-	AX-PAPR-AUS / Class 1
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	AX-3	-
100+ x ES	-	Air-line**	-

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	-95	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	40	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	>1 BuAc=1	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	19	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	12	Volatile Component (%vol)	100
Vapour pressure (kPa)	50.6 @ 22 degC	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	2.93	VOC g/L	Not Available

## SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Inhaled	and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the individual. There is some evidence to suggest that the material can cause re lung damage. Inhalation hazard is increased at higher temperatures. Inhalation exposure may cause susceptible individuals to show cha	hay be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, material during the course of normal handling, may be damaging to the health of the spiratory irritation in some persons. The body's response to such irritation can cause further ange in heart beat rhythm i.e. cardiac arrhythmia. Exposures must be terminated. to take place over two stages. Signs of a reversible narcosis are evident in the first stage and , a single organ alone is (almost) never involved.	
Ingestion	Accidental ingestion of the material may be harmful; animal experi damage to the health of the individual.	ments indicate that ingestion of less than 150 gram may be fatal or may produce serious	
Skin Contact	The material may cause severe inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin should not be exposed to this material		
Eye	There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.		
Chronic	There is some evidence from animal testing that exposure to this	ause some concern following repeated or long-term occupational exposure.	
Du Mark Flaushak Stan 4	ΤΟΧΙΟΙΤΥ	IRRITATION	
Dy-Mark Flawchek Step 1 Preclean	Not Available	Not Available	
	тохісіту	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye(rabbit): 162 mg - moderate	
methylene chloride	Inhalation (rat) LC50: 76 mg/L/4hr <sup>[2]</sup>	Eye(rabbit): 500 mg/24hr - mild	
	Oral (rat) LD50: 985 mg/kg <sup>[2]</sup>	Skin (rabbit): 100mg/24hr-moderate	
		Skin (rabbit): 810 mg/24hr-SEVERE	

Preclean	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.		
METHYLENE CHLORIDE	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Inhalation (human) TCLo: 500 ppm/ 1 y - I Eye(rabbit): 10 mg - mild		
Acute Toxicity	✓ Carcinogenicity	v 🗸	
Skin Irritation/Corrosion	✓ Reproductivity		
Serious Eye Damage/Irritation	STOT - Single Exposure	• 0	
Respiratory or Skin sensitisation	STOT - Repeated Exposure	• 0	
Mutagenicity	S Aspiration Hazard		
	Legend:	<ul> <li>Data available but does not fill the criteria for classification</li> <li>Data required to make classification available</li> <li>Data Not Available to make classification</li> </ul>	

### **SECTION 12 ECOLOGICAL INFORMATION**

## Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
methylene chloride	EC50	96	Algae or other aquatic plants	161.874mg/L	3
methylene chloride	EC50	3	Algae or other aquatic plants	1.477782mg/L	4
methylene chloride	EC50	48	Crustacea	0.13580307mg/L	4
methylene chloride	NOEC	96	Algae or other aquatic plants	56mg/L	4
methylene chloride	LC50	96	Fish	=13.1mg/L	1
Legend:	Aquatic Toxicity Data	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data			

For Methylene Chloride: Log Kow: 1.25; Log Koc: 1.68; Log Kom: 1.44; Henry's atm m3 /mol: 2.68E-03; Henry I and Sol. The main degradation pathway for methylene chloride in air is via reactions with hydroxyl radicals I avolatile liquid that tends to evaporate to the atmosphere from water and soil. The main degradation pathway for methylene chloride in air is via reactions with hydroxyl radicals I the average atmospheric lifetime is estimated to be 130 days. Because this degradation pathway is relatively slow, methylene chloride may become widely dispersed but, is not likely to accumulate in the atmosphere.
DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methylene chloride	LOW (Half-life = 56 days)	HIGH (Half-life = 191 days)

#### **Bioaccumulative potential**

•	
Ingredient	Bioaccumulation
methylene chloride	LOW (BCF = 40)
Mobility in soil	
Ingredient	Mobility

## SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> </ul>

It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> </ul>
Consult State Land Waste Authority for disposal.
<ul> <li>Bury or incinerate residue at an approved site.</li> </ul>
<ul> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

	TOXIC 6			
Marine Pollutant	NO			
HAZCHEM	2Z			
Land transport (ADG)				
UN number	1593			
UN proper shipping name	DICHLOROMETHANE			
Transport hazard class(es)	Class     6.1       Subrisk     Not Applicable			
Packing group				
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions     Not Applicable       Limited quantity     5 L			
Air transport (ICAO-IATA / D	GR)			
UN number	1593	1593		
UN proper shipping name	Dichloromethane			
Transport hazard class(es)	ICAO/IATA Class 6.1 ICAO / IATA Subrisk Not Applicable ERG Code 6L			
Packing group	II			
Environmental hazard	Not Applicable			
	Special provisions	Not Applicable		
	Cargo Only Packing Instructions	663		
	Cargo Only Maximum Qty / Pack	220 L		
Special precautions for user	Passenger and Cargo Packing Instructions	655		
	Passenger and Cargo Maximum Qty / Pack	60 L		
	Passenger and Cargo Limited Quantity Packing Instructions	Y642		
	Passenger and Cargo Limited Maximum Qty / Pack	2 L		
Sea transport (IMDG-Code	/ GGVSee)			
UN number	1593			
UN proper shipping name	DICHLOROMETHANE			

UN proper shipping name	DICHLOROMETHANE
Transport hazard class(es)	IMDG Class     6.1       IMDG Subrisk     Not Applicable
Packing group	III
Environmental hazard	Not Applicable
Special precautions for user	EMS NumberF-A, S-ASpecial provisionsNot ApplicableLimited Quantities5 L

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## SECTION 15 REGULATORY INFORMATION

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

## METHYLENE CHLORIDE(75-09-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

 Australia Exposure Standards
 Australia Inventory of Chemical Substances (AICS)

 Australia Hazardous Substances Information System - Consolidated Lists
 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Y
Canada - NDSL	N (methylene chloride)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

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PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit₀ IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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