

# CRC (NZ) 5035 Tac 2 (Aerosol)

### **CRC Industries (CRC Industries New Zealand)**

Chemwatch: 4552-99

Version No: 5.1.1.1 Safety Data Sheet according to HSNO Regulations Chemwatch Hazard Alert Code: 4

Issue Date: **10/02/2014** Print Date: **19/06/2018** S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	CRC (NZ) 5035 Tac 2 (Aerosol)
Synonyms	beltdrive chain lubricant TAC2; crx5035
Proper shipping name	AEROSOLS
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 consider control of exposure by mechanical ventilation.
Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack Lubricant for chains and belt drives.

#### Details of the supplier of the safety data sheet

Registered company name	CRC Industries (CRC Industries New Zealand)	
Address	10 Highbrook Drive East Tamaki Auckland New Zealand	
Telephone	+64 9 272 2700	
Fax	+64 9 274 9696	
Website	www.crc.co.nz	
Email	customerservices@crc.co.nz	

#### **Emergency telephone number**

Association / Organisation	Not Available
Emergency telephone numbers	NZ Poisons Centre 0800 POISON (0800 764 766)
Other emergency telephone numbers	111 (NZ Emergency Services)

#### **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Classification <sup>[1]</sup>	Aerosols Category 1, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 5, Acute Toxicity (Inhalation) Category 5, Skin Corrosion/Irritation Category 2, Carcinogenicity Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	2.1.2A, 6.1D (oral), 6.1E (dermal), 6.1E (inhalation), 6.3A, 6.7B	

### Label elements



SIGNAL WORD DANGER

### Hazard statement(s)

H222	Extremely flammable aerosol.
H302	Harmful if swallowed.
H313	May be harmful in contact with skin.
H333	May be harmful if inhaled.
H315	Causes skin irritation.
H351	Suspected of causing cancer.

### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
P304+P312	IF INHALED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.

### Precautionary statement(s) Storage

P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 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	30-60	methylene chloride
Not Available	10-30	mineral oil
	not spec	for mist
74-98-6	10-30	propane
106-97-8.	10-30	butane

#### SECTION 4 FIRST AID MEASURES

### Description of first aid measures

Eye Contact	<ul> <li>If aerosols come in contact with the eyes:</li> <li>Immediately hold the eyelids apart and flush the eye 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 solids or aerosol mists are deposited upon the skin:</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Remove any adhering solids with industrial skin cleansing cream.</li> <li>DO NOT use solvents.</li> <li>Seek medical attention in the event of irritation.</li> </ul>	
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</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>If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> </ul>	

	<ul> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>Not considered a normal route of entry.</li> <li>If poisoning occurs, contact a doctor or Poisons Information Centre.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

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

Treat symptomatically.

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- + In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- + High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

**NOTE:** Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

**DO NOT** administer sympathomimetic drugs as they may cause ventricular arrhythmias.

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- + Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

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

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

#### 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

Alert Fire Brigade and tell them location and nature of hazard.

	<ul> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are flammable.</li> <li>Moderate fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Moderate explosion hazard when exposed to heat or flame.</li> <li>Combustion products include:</li> <li>hydrogen chloride</li> <li>phosgene</li> <li>other pyrolysis products typical of burning organic material.</li> <li>Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.</li> <li>carbon dioxide (CO2)</li> </ul>

### SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>

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>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>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Keep containers securely sealed.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	methylene chloride	Methylene chloride (Dichloromethane)	50 ppm / 174 mg/m3	Not Available	Not Available	6.7B - Suspected carcinogen
New Zealand Workplace Exposure Standards (WES)	mineral oil	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	(om) - Sampled by a method that does not collect vapour.
New Zealand Workplace Exposure Standards (WES)	propane	Propane	Not Available	Not Available	Not Available	Simple asphyxiant - may present an explosion hazard

New Zealand Workplace Exposure Standards (WES)	butane	Butane	800 ppr 1900 m	n / g/m3	Not Available	Not Available	Not Ava	ailable
EMERGENCY LIMITS								
Ingredient	Material name			TEEL-1		TEEL-2		TEEL-3
methylene chloride	Methylene chlori	Methylene chloride; (Dichloromethane)			vailable	Not Availabl	e	Not Available
propane	Propane	Propane			vailable	Not Availabl	e	Not Available
butane	Butane			Not Available		Not Availabl	e	Not Available
								·
Ingredient	Original IDLH			Revised	IDLH			
methylene chloride	2000 ppm	2000 ppm			Not Available			
mineral oil	2500 mg/m3			Not Available				
propane	2,100 [LEL] ppm			Not Available				
butane	Not Available			1,600 (>	10% LEL) ppm			

#### **Exposure 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	No special equipment for minor exposure i.e. when handling small quantities. <b>OTHERWISE:</b> For potentially moderate or heavy exposures: • Safety glasses with side shields. • <b>NOTE:</b> Contact lenses pose a special hazard; soft lenses may absorb irritants and <b>ALL</b> lenses concentrate them.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Skin cleansing cream. • Eyewash unit.

### 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 *computer-generated* selection: CRC (MZ) 5035 Tac 2 (Aerosol)

CRC	(NZ)	5035	lac 2	(Aerosol)	

Material	СРІ
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

### **Respiratory protection**

Type GAX 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	GAX-AUS	-	GAX-PAPR-AUS / Class 1
up to 50 x ES	-	GAX-AUS / Class 1	-
up to 100 x ES	-	GAX-2	GAX-PAPR-2 ^

^ - Full-face

\* 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	22aer Clear, yellow green liquid with a sulphurous odour; not miscible with water.					
Physical state	Liquid	Relative density (Water = 1)	1.14			
Odour	Not Available	Partition coefficient n-octanol / water	1			
Odour threshold	Not Available	Auto-ignition temperature (°C)	550			
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available			
Melting point / freezing point (°C)	>40	Viscosity (cSt)	1593			
Initial boiling point and boiling range (°C)	>40	Molecular weight (g/mol)	Not Applicable			
Flash point (°C)	Not Available	Taste	Not Available			
Evaporation rate	14 BuAc=1	Explosive properties	Not Available			
Flammability	Not Available	Oxidising properties	Not Available			
Upper Explosive Limit (%)	22	Surface Tension (dyn/cm or mN/m)	Not Available			
Lower Explosive Limit (%)	14	Volatile Component (%vol)	60			
Vapour pressure (kPa)	Not Available	Gas group	Not Available			
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable			
Vapour density (Air = 1)	>1	VOC g/L	792			

### SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7	
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</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	Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.
	Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure. Symptoms of asphyxia (suffocation) may include headache, dizziness, shortness of breath, muscular weakness,

Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

	drowsiness and ringing in the ears. If the asphyxia is allowed to progress, there may be nausea and vomiting, further physical weakness and unconsciousness and, finally, convulsions, coma and death. <b>WARNING</b> :Intentional misuse by concentrating/inhaling contents may be lethal.
	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
Ingestion	Depression of the central nervous system is the most outstanding effect of most halogenated aliphatic hydrocarbons. Inebriation and excitation, passing into narcosis, is a typical reaction. In severe acute exposures there is always a danger of death from respiratory failure or cardiac arrest due to a tendency to make the heart more susceptible to catecholamines (adrenalin) Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and
	cracking and redness of the skin. The material may cause severe inflammation of the skin either following direct contact or after a delay of some time.
Skin Contact	Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material
Eye	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Chronic	Main route of exposure to the gas in the workplace is by inhalation.

CPC (N7) 5025 Tag 2	ΤΟΧΙCITY	IRRITATION
(Aerosol)	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/4H <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
	ΤΟΧΙΟΙΤΥ	IRRITATION
mineral oil	Not Available	Not Available
propane		IRRITATION
	Inhalation (rat) LC50: 84.684 mg/I15 min <sup>[1]</sup>	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
butane	Inhalation (rat) LC50: 658 mg/l/4H <sup>[2]</sup>	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Subs	stances - Acute toxicity 2.* Value obtained from manufacturer's SDS.
	Unless otherwise specified data extracted from RTEC	CS - Register of Toxic Effect of chemical Substances

METHYLENE CHLORIDE	<ul> <li>The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</li> <li>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.</li> <li>WARNING: This substance has been classified by the IARC as Group 2A: Probably Carcinogenic to Humans. Inhalation (human) TCLo: 500 ppm/ 1 y - I Eye(rabbit): 10 mg - mild</li> </ul>		
MINERAL OIL	Toxicity and Irritation data for petroleum-based mineral oils are related to chemical components and vary as does the composition and source of the original crude. A small but definite risk of occupational skin cancer occurs in workers exposed to persistent skin contamination by oils over a period of years. This risk has been attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (typified by benz[a]pyrene). Petroleum oils which are solvent refined/extracted or severely hydrotreated, contain very low concentrations of both.		
PROPANE	No significant acute toxicological data identified in literature search.		
CRC (NZ) 5035 Tac 2 (Aerosol)			
Acute Toxicity	*	Carcinogenicity	✓
Skin Irritation/Corrosion	×	Reproductivity	$\otimes$
Serious Eye Damage/Irritation	$\otimes$	STOT - Single Exposure	$\otimes$

Respiratory or Skin sensitisation

Mutagenicity

 $\bigcirc$ 

 $\bigcirc$ 

### STOT - Repeated Exposure

Aspiration Hazard

Legend: 🔀

Data available but does not fill the criteria for classification
 Data available to make classification

S − Data Not Available to make classification

0

### SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity

CRC (NZ) 5035 Tac 2 (Aerosol)	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE Not Available	SOURCE Not Available
methylene chloride	ENDPOINT LC50 EC50 EC50 NOEC	TEST DURATION (HR)           96           48           72           96	SPECIES Fish Crustacea Algae or other aquatic plants Algae or other aquatic plants	VALUE           =13.1mg/L           =108.5mg/L           242mg/L           56mg/L	SOURCE           1           4           4           4
mineral oil	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE Not Available	SOURCE Not Available
propane	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE Not Available	SOURCE Not Available
butane	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE Not Available	SOURCE Not Available
Legend:	Extracted from Toxicity 3. EF Data 5. ECET Bioconcentra	n 1. IUCLID Toxicity Data 2. Europe ECH. IWIN Suite V3.12 (QSAR) - Aquatic Toxic TOC Aquatic Hazard Assessment Data 6. I tion Data 8. Vendor Data	A Registered Substances - Ecotoxicolog ity Data (Estimated) 4. US EPA, Ecotox NITE (Japan) - Bioconcentration Data 7.	ical Information - database - Aqua METI (Japan) -	Aquatic tic Toxicity

Drinking Water Standards: hydrocarbon total: 10 ug/l (UK max.). 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)
propane	LOW	LOW
butane	LOW	LOW

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
methylene chloride	LOW (BCF = 40)
propane	LOW (LogKOW = 2.36)
butane	LOW (LogKOW = 2.89)

### Mobility in soil

Ingredient	Mobility
methylene chloride	LOW (KOC = 23.74)
propane	LOW (KOC = 23.74)
butane	LOW (KOC = 43.79)

### SECTION 13 DISPOSAL CONSIDERATIONS

	Consult State Land Waste Management Authority for disposal.
	<ul> <li>Discharge contents of damaged aerosol cans at an approved site.</li> </ul>
	<ul> <li>Allow small quantities to evaporate.</li> </ul>
	DO NOT incinerate or puncture aerosol cans.
Product / Packaging	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> </ul>
disposal	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	• 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.
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

### **Disposal Requirements**

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

### **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	2Y

#### Land transport (UN)

UN number	1950	
UN proper shipping name	AEROSOLS	
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable	
Packing group	Not Applicable	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisions         63; 190; 277; 327; 344; 381           Limited quantity         1000ml	

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Sea transport (IMDG-Code / GGVSee)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	IMDG Class     2.1       IMDG Subrisk     Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-D, S-U 63 190 277 327 344 381 959 1000ml	-

# 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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard				
HSR002515	Aerosols (Flammable) Group Standard 2017				
METHYLENE CHLORIDE(75-09-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs		New Zealand Inventory of Chemicals (NZIoC)			
		New Zealand Workplace Exposure Standards (WES)			
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals					
MINERAL OIL(NOT AVAILABLE) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
International Agency for Research on Cancer (IARC) - Agents Classified		New Zealand Workplace Exposure Standards (WES)			
by the IARC Monographs					
PROPANE(74-98-6) IS FOUNI	D ON THE FOLLOWING REGULATORY LISTS				
New Zealand Hazardous Substances and New Organisms (HSNO) Act -		New Zealand Workplace Exposure Standards (WES)			
New Zeeland Investory of Chemicals (NZIeC)					
New Zealand Inventory of On					
BUTANE(106-97-8.) IS FOUN	D ON THE FOLLOWING REGULATORY LISTS				
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		New Zealand Workplace Exposure Standards (WES)			
New Zealand Inventory of Chemicals (NZIoC)					

#### **Location Test Certificate**

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below are present.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
2.1.2A	3 000 L (aggregate water capacity)	3 000 L (aggregate water capacity)

#### **Approved Handler**

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities
2.1.2A	3 000 L aggregate water capacity

Refer Group Standards for further information

### **Tracking Requirements**

#### Not Applicable

National Inventory	Status
Australia - AICS	N (mineral oil)
Canada - DSL	N (mineral oil)
Canada - NDSL	N (butane; methylene chloride; mineral oil; propane)
China - IECSC	N (mineral oil)
Europe - EINEC / ELINCS / NLP	N (mineral oil)
Japan - ENCS	N (mineral oil)
Korea - KECI	N (mineral oil)
New Zealand - NZIoC	N (mineral oil)
Philippines - PICCS	N (mineral oil)
USA - TSCA	N (mineral oil)
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**

Revision Date	10/02/2014
Initial Date	Not Available

#### Other information

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

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**

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 Limit<sub>o</sub> 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

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.