

CRC(NZ) UHS Ultra High Strength Aerosol Adhesive CRC Industries (CRC Industries New Zealand)

Chemwatch Hazard Alert Code: 4

Issue Date: **10/03/2023**Print Date: **20/10/2024**S.GHS.NZL.EN

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Chemwatch: 62-2904

Version No. 9.1

Product name	CRC(NZ) UHS Ultra High Strength Aerosol Adhesive
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	AEROSOLS
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack
	Use according to manufacturer's directions.

Details of the manufacturer or 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	- No EMAL ID NEEDED for NZ - JACK	

Emergency telephone number

Association / Organisation	CRC Industries (CRC Industries New Zealand)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	NZ Poisons Centre 0800 POISON (0800 764 766)	+64 800 700 112
Other emergency telephone number(s)	111 (NZ Emergency Services)	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Aerosols, Hazard Category 1, Acute Toxicity (Oral) Category 4, Serious Eye Damage/Eye Irritation Category 2, Acute Toxicity (Inhalation) Category 4, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Hazardous to the Aquatic Environment Long-Term Hazard Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	2.1.2A, 6.1D (inhalation), 6.1D (oral), 6.4A, 6.9B (narcotic effects), 9.1B	

Hazard pictogram(s)







Signal word

Danger

Hazard statement(s)

H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.	
H302	Harmful if swallowed.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	

Precautionary statement(s) Prevention

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.	
P271	Use only outdoors or in a well-ventilated area.	

Precautionary statement(s) Response

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/attention.	
P391	Collect spillage.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	

Precautionary statement(s) Storage

P405	Store locked up.	
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name	
110-82-7	30-60	<u>cyclohexane</u>	
67-64-1	10-30	acetone	
68476-85-7.	30-60	hydrocarbon propellant	
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

If aerosols come in contact with the eyes:

▶ Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.

- 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.
- ▶ Transport to hospital or doctor without delay.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact	If solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.
Inhalation	 If aerosols, fumes or combustion products are inhaled: Remove to fresh air. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. 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. Transport to hospital, or doctor.
Ingestion	 Avoid giving milk or oils. Avoid giving alcohol. Not considered a normal route of entry. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

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]

Treat symptomatically.

For acute or short term repeated exposures to acetone:

- Symptoms of acetone exposure approximate ethanol intoxication.
- About 20% is expired by the lungs and the rest is metabolised. Alveolar air half-life is about 4 hours following two hour inhalation at levels near the Exposure Standard; in overdose, saturable metabolism and limited clearance, prolong the elimination half-life to 25-30 hours.
- There are no known antidotes and treatment should involve the usual methods of decontamination followed by supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

Management:

Measurement of serum and urine acetone concentrations may be useful to monitor the severity of ingestion or inhalation.

Inhalation Management:

- Maintain a clear airway, give humidified oxygen and ventilate if necessary.
- If respiratory irritation occurs, assess respiratory function and, if necessary, perform chest X-rays to check for chemical pneumonitis.
- Consider the use of steroids to reduce the inflammatory response.
- ▶ Treat pulmonary oedema with PEEP or CPAP ventilation.

Dermal Management:

- P Remove any remaining contaminated clothing, place in double sealed, clear bags, label and store in secure area away from patients and staff.
- Irrigate with copious amounts of water.
- An emollient may be required.

Eye Management

- Irrigate thoroughly with running water or saline for 15 minutes.
- Stain with fluorescein and refer to an ophthalmologist if there is any uptake of the stain.

Oral Management:

- ▶ No GASTRIC LAVAGE OR EMETIC
- Encourage oral fluids.

Systemic Management:

- Monitor blood glucose and arterial pH.
- Ventilate if respiratory depression occurs.
- If patient unconscious, monitor renal function.
- Symptomatic and supportive care.

The Chemical Incident Management Handbook:

Guy's and St. Thomas' Hospital Trust, 2000

BIOLOGICAL EXPOSURE INDEX

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Sampling Time Index Comments

Acetone in urine End of shift 50 mg/L NS

NS: Non-specific determinant; also observed after exposure to other material

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	Incom	patibility
LIIE	IIICOIII	paubility

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

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

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

SECTION 7 Handling and storage

Precautions for safe handling

Precautions for sale namu	
Safe handling	The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. • DO NOT allow clothing wet with material to stay in contact with skin • Avoid all personal contact, including inhalation. • Wear protective clothing when risk of exposure occurs. • Use in a well-ventilated area. • Prevent concentration in hollows and sumps.
Other information	 Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

Suitable container

- Aerosol dispenser.
- Check that containers are clearly labelled.

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)	cyclohexane	Cyclohexane	100 ppm / 350 mg/m3	1050 mg/m3 / 300 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	(bio) - Exposure can also be estimated by biological monitoring
New Zealand Workplace Exposure Standards (WES)	hydrocarbon propellant	LPG (Liquefied petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
cyclohexane	Not Available	Not Available
acetone	2,500 ppm	Not Available
hydrocarbon propellant	Not Available	Not Available

Exposure controls

Appropriate engineering controls

CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear

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.

Individual protection measures, such as personal protective equipment











Eye and face protection

- Safety glasses with side shields.
- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- 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.
- ► Close fitting gas tight goggles

DO NOT wear contact lenses

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.

Skin protection

See Hand protection below

Hands/feet protection

- No special equipment needed when handling small quantities.
- OTHERWISE:
- ▶ For potentially moderate exposures:
- ▶ Wear general protective gloves, eg. light weight rubber gloves.
- ▶ For potentially heavy exposures:
- Wear chemical protective gloves, eg. PVC. and safety footwear.

Body protection

See Other protection below

No special equipment needed when handling small quantities.

OTHERWISE:

- Overalls.
- Skin cleansing cream.
- Other protection
- ▶ Eyewash unit.
- The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton.
- ▶ Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost. BRETHERICK: Handbook of Reactive Chemical Hazards.

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(NZ) UHS Ultra High Strength Aerosol Adhesive

Material	СРІ
PE/EVAL/PE	A
TEFLON	В
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
VITON	С
VITON/NEOPRENE	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.

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.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used.

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Annooronoo	Clear highly flammable liquid with a strong solvent odour; liquid is partially miscible with water. Dries to an opaque off-white film.
Appearance	#28aer

Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-81 (propellant)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available

Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur.
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

cyclohexane

TOXICITY

nformation on toxicologic	al effects		
Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. 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. In general, the alicyclic hydrocarbons produce less discomfort than the corresponding aromatic compounds. 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. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Not a likely route of entry into the body in commercial or industrial environments. The liquid may produce considerable gastrointestinal discomfort and be harmful or toxic if swallowed. 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.		
Skin Contact	The material may cause mild but significant 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. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material		
Еуе	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain. Not considered to be a risk because of the extreme volatility of the gas.		
Chronic	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Main route of exposure to the gas in the workplace is by inhalation. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]		
CDC/N7) HUC Hidge Uigh	TOXICITY	IRRITATION	
CRC(NZ) UHS Ultra High Strength Aerosol Adhesive	NZ) one one might		

IRRITATION

	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eve (Rogent -	rabbit): 0.1mL
			<u> </u>
	Inhalation (Rat) LC50: >5540 ppm4h ^[1]	Eye (Rodent -	rabbit): 0.1mL - Severe
	Oral (Rat) LD50: 12705 mg/kg ^[2]	Eye: no adver	se effect observed (not irritating) ^[1]
		Skin (Rodent -	rabbit): 1548mg/2D (intermittent)
		Skin: adverse	effect observed (irritating) ^[1]
		Skin: no adver	rse effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 20000 mg/kg ^[2]	Eye (Human):	186300ppm - Mild
	Inhalation (Mouse) LC50: 44 mg/L4h ^[2]	Eye (Human):	500ppm
	Oral (Rat) LD50: 5800 mg/kg ^[2]	Eye (Rodent -	rabbit): 10uL - Mild
		Eye (Rodent -	rabbit): 20mg - Severe
acetone		Eye (Rodent -	rabbit): 20mg/24H - Moderate
		Eye: adverse	effect observed (irritating) ^[1]
			· rabbit): 395mg - Mild
			rabbit): 500mg/24H - Mild
		Skin: no adver	rse effect observed (not irritating) ^[1]
			·
hydrocarbon propellant	TOXICITY	IRRITATION	
	Inhalation (Rat) LC50: 658 mg/l4h ^[2]	Not Available	
l egend:	1 Value obtained from Europe ECHA Registere	ed Substances - Acute toxicity 2 \	/alue obtained from manufacturer's SDS
Legend:	Value obtained from Europe ECHA Registere Unless otherwise specified data extracted from		
CRC(NZ) UHS Ultra High Strength Aerosol Adhesive		nd cyclic paraffins are absorbed in all to the carbon chain length, with a lard oil, n-paraffins may be absorbed into the gastrointestinal traciation with fats in the diet. Some hydrocarbons partly separate from the eye causing pronounced inflamings of CNS depression and weig	from the gastrointestinal tract and that the little absorption above C30. With respect to the little absorption above C30. With respect to the led to a greater extent than iso- or cycloct in various species. In many cases, the hydrocarbons may appear unchanged as in the lats and undergo metabolism in the gut cell. mation. Repeated or prolonged exposure to the loss have been noted at higher doses. Other
CRC(NZ) UHS Ultra High	Animal studies indicate that normal, branched a absorption of n-paraffins is inversely proportional carbon chain lengths likely to be present in mine paraffins. The major classes of hydrocarbons are well absorption particles in the gut lymph, but most he irritants may produce severe irritation to the irritants may produce conjunctivitis. Cyclohexanone irritates the eye and the skin. Si features of toxicity include mottling of the lungs at	nd cyclic paraffins are absorbed in all to the carbon chain length, with a lard oil, n-paraffins may be absorbed into the gastrointestinal traciation with fats in the diet. Some hydrocarbons partly separate from the eye causing pronounced inflamings of CNS depression and weig	from the gastrointestinal tract and that the little absorption above C30. With respect to the little absorption above C30. With respect to the led to a greater extent than iso- or cycloct in various species. In many cases, the hydrocarbons may appear unchanged as in the fats and undergo metabolism in the gut cell. mation. Repeated or prolonged exposure to the loss have been noted at higher doses. Other
CRC(NZ) UHS Ultra High Strength Aerosol Adhesive	Unless otherwise specified data extracted from Animal studies indicate that normal, branched a absorption of n-paraffins is inversely proportional carbon chain lengths likely to be present in mine paraffins. The major classes of hydrocarbons are well abs hydrophobic hydrocarbons are ingested in assor lipoprotein particles in the gut lymph, but most h The material may produce severe irritation to the irritants may produce conjunctivitis. Cyclohexanone irritates the eye and the skin. Si features of toxicity include mottling of the lungs a cancers, but it may reversibly reduce fertility.	nd cyclic paraffins are absorbed in all to the carbon chain length, with earl oil, n-paraffins may be absorbed into the gastrointestinal traction with fats in the diet. Some hydrocarbons partly separate from the eye causing pronounced inflaming griphs of CNS depression and weight and degenerative changes in the	from the gastrointestinal tract and that the little absorption above C30. With respect to the little absorption above C30. With respect to the lot of a greater extent than iso- or cycloct in various species. In many cases, the hydrocarbons may appear unchanged as in the fats and undergo metabolism in the gut cell. mation. Repeated or prolonged exposure to the loss have been noted at higher doses. Other liver and kidney. It is not considered to cause
CRC(NZ) UHS Ultra High Strength Aerosol Adhesive CYCLOHEXANE CRC(NZ) UHS Ultra High Strength Aerosol Adhesive & HYDROCARBON	Animal studies indicate that normal, branched a absorption of n-paraffins is inversely proportional carbon chain lengths likely to be present in mine paraffins. The major classes of hydrocarbons are well absolydrophobic hydrocarbons are ingested in assolipoprotein particles in the gut lymph, but most head that the material may produce severe irritation to the irritants may produce conjunctivitis. Cyclohexanone irritates the eye and the skin. Si features of toxicity include mottling of the lungs a cancers, but it may reversibly reduce fertility. Bacteria mutagen	nd cyclic paraffins are absorbed in all to the carbon chain length, with eral oil, n-paraffins may be absorbed into the gastrointestinal tractication with fats in the diet. Some hydrocarbons partly separate from the eye causing pronounced inflaming gars of CNS depression and weigh and degenerative changes in the conged or repeated exposure and the graph of the skin.	from the gastrointestinal tract and that the little absorption above C30. With respect to the little absorption above C30. With respect
CRC(NZ) UHS Ultra High Strength Aerosol Adhesive CYCLOHEXANE CRC(NZ) UHS Ultra High Strength Aerosol Adhesive & HYDROCARBON PROPELLANT CRC(NZ) UHS Ultra High Strength Aerosol Adhesive	Animal studies indicate that normal, branched a absorption of n-paraffins is inversely proportional carbon chain lengths likely to be present in mine paraffins. The major classes of hydrocarbons are well absorption particles in the gut lymph, but most head that the material may produce severe irritation to the irritants may produce conjunctivitis. Cyclohexanone irritates the eye and the skin. Si features of toxicity include mottling of the lungs cancers, but it may reversibly reduce fertility. Bacteria mutagen No significant acute toxicological data identified The material may cause skin irritation after professions. The acute toxicity of acetone is low. Acetone is the eye. Animal testing shows acetone may cause.	nd cyclic paraffins are absorbed fall to the carbon chain length, with eral oil, n-paraffins may be absorbed into the gastrointestinal traciation with fats in the diet. Some hydrocarbons partly separate from e eye causing pronounced inflaming of CNS depression and weigh and degenerative changes in the in literature search, inhalation of the original of the skin. Into a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but the carbon chains are absorbed.	from the gastrointestinal tract and that the little absorption above C30. With respect to the little absorption above C30. With respect to the lot of a greater extent than iso- or cycloct in various species. In many cases, the hydrocarbons may appear unchanged as in the fats and undergo metabolism in the gut cell. mation. Repeated or prolonged exposure to the loss have been noted at higher doses. Other liver and kidney. It is not considered to cause the gas
CRC(NZ) UHS Ultra High Strength Aerosol Adhesive CYCLOHEXANE CRC(NZ) UHS Ultra High Strength Aerosol Adhesive & HYDROCARBON PROPELLANT CRC(NZ) UHS Ultra High Strength Aerosol Adhesive & ACETONE	Animal studies indicate that normal, branched a absorption of n-paraffins is inversely proportional carbon chain lengths likely to be present in mine paraffins. The major classes of hydrocarbons are well absorption paraffins. The major classes of hydrocarbons are well absorption particles in the gut lymph, but most the intritants may produce severe irritation to the irritants may produce conjunctivitis. Cyclohexanone irritates the eye and the skin. Sifeatures of toxicity include mottling of the lungs accancers, but it may reversibly reduce fertility. Bacteria mutagen No significant acute toxicological data identified The material may cause skin irritation after profit the production of vesicles, scaling and thickenin For acetone: The acute toxicity of acetone is low. Acetone is the eye. Animal testing shows acetone may cause of 2375 mg/m3 does not negatively impact an in	nd cyclic paraffins are absorbed in all to the carbon chain length, with eral oil, n-paraffins may be absorbed into the gastrointestinal tractication with fats in the diet. Some hydrocarbons partly separate from the eye causing pronounced inflaming gars of CNS depression and weigh and degenerative changes in the conged or repeated exposure and the graph of the skin.	from the gastrointestinal tract and that the little absorption above C30. With respect to the little and undergo metabolism in the gut cell. It is not undergo metabolism in the gut cell. It is not considered to cause liver and kidney. It is not considered to cause the gas
CRC(NZ) UHS Ultra High Strength Aerosol Adhesive CYCLOHEXANE CRC(NZ) UHS Ultra High Strength Aerosol Adhesive & HYDROCARBON PROPELLANT CRC(NZ) UHS Ultra High Strength Aerosol Adhesive & ACETONE	Animal studies indicate that normal, branched a absorption of n-paraffins is inversely proportional carbon chain lengths likely to be present in miner paraffins. The major classes of hydrocarbons are well absolydrophobic hydrocarbons are ingested in assolipoprotein particles in the gut lymph, but most he in the material may produce severe irritation to the irritants may produce conjunctivitis. Cyclohexanone irritates the eye and the skin. Sifeatures of toxicity include mottling of the lungs a cancers, but it may reversibly reduce fertility. Bacteria mutagen No significant acute toxicological data identified The material may cause skin irritation after product the production of vesicles, scaling and thickenin For acetone: The acute toxicity of acetone is low. Acetone is the eye. Animal testing shows acetone may cau of 2375 mg/m3 does not negatively impact an in	nd cyclic paraffins are absorbed fall to the carbon chain length, with eral oil, n-paraffins may be absorbed into the gastrointestinal traciation with fats in the diet. Some hydrocarbons partly separate from the eye causing pronounced inflaming and degenerative changes in the literature search, inhalation of the skin. In the skin irritant or sensitizer, but se anaemia. Studies in humans hydroiding in the literature search, inhalation, but the skin irritant or sensitizer, but se anaemia. Studies in humans hydroiding in the carbonal regulation, but a skin irritant or sensitizer, but se anaemia. Studies in humans hydroiding in hydroiding in hydroiding in hydroiding in hydroi	from the gastrointestinal tract and that the little absorption above C30. With respect to the ped to a greater extent than iso- or cycloct in various species. In many cases, the hydrocarbons may appear unchanged as in the fats and undergo metabolism in the gut cell. mation. Repeated or prolonged exposure to the liver and kidney. It is not considered to cause the gas the gas may produce on contact skin redness, swelling the tremoves fat from the skin, and it also irritate have shown that exposure to acetone at a level ehaviour, or learning ability.
CRC(NZ) UHS Ultra High Strength Aerosol Adhesive CYCLOHEXANE CRC(NZ) UHS Ultra High Strength Aerosol Adhesive & HYDROCARBON PROPELLANT CRC(NZ) UHS Ultra High Strength Aerosol Adhesive & ACETONE Acute Toxicity Skin Irritation/Corrosion Serious Eye	Unless otherwise specified data extracted from Animal studies indicate that normal, branched a absorption of n-paraffins is inversely proportional carbon chain lengths likely to be present in mine paraffins. The major classes of hydrocarbons are well abs hydrophobic hydrocarbons are ingested in assor lipoprotein particles in the gut lymph, but most h The material may produce severe irritation to the irritants may produce conjunctivitis. Cyclohexanone irritates the eye and the skin. Si features of toxicity include mottling of the lungs a cancers, but it may reversibly reduce fertility. Bacteria mutagen No significant acute toxicological data identified The material may cause skin irritation after profe the production of vesicles, scaling and thickenin For acetone: The acute toxicity of acetone is low. Acetone is r the eye. Animal testing shows acetone may cau- of 2375 mg/m3 does not negatively impact an in	nd cyclic paraffins are absorbed fall to the carbon chain length, with eral oil, n-paraffins may be absorbed into the gastrointestinal traciation with fats in the diet. Some hydrocarbons partly separate from e eye causing pronounced inflaming and degenerative changes in the in literature search, inhalation of the sign of the skin. Into a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but a skin irritant or sensitizer, but se anaemia. Studies in humans in individual's emotional regulation, but a skin irritant or sensitizer, but sensitizer, but a skin irritant or sensitizer, but sensitizer, but a skin irritant or sensitizer, but a skin irritan	from the gastrointestinal tract and that the little absorption above C30. With respect to the little absorption and species. In many cases, the hydrocarbons may appear unchanged as in the little and undergo metabolism in the gut cell. mation. Repeated or prolonged exposure to this loss have been noted at higher doses. Other liver and kidney. It is not considered to cause the gas the gas the gas are the skin, and it also irritates have shown that exposure to acetone at a level ehaviour, or learning ability.

Legend: X − Data either not available or does not fill the criteria for classification

✓ − Data available to make classification

Toxicity

CDC/NZ\ IIIIC IIItaa IIiab	Endpoint	Test Duration (hr)	Species	Value	Source
CRC(NZ) UHS Ultra High strength Aerosol Adhesive	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1344h	Fish	31-102	7
	EC50	72h	Algae or other aquatic plants	3.428mg/l	2
cyclohexane	EC50(ECx)	48h	Crustacea	0.9mg/l	2
	EC50	48h	Crustacea	0.9mg/l	2
	LC50	96h	Fish	4.53mg/l	2
	EC50	96h	Algae or other aquatic plants	2.17mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	5600- 10000mg/L	4
	EC50	48h	Crustacea	6098.4mg/L	5
acetone	NOEC(ECx)	12h	Fish	0.001mg/L	4
	LC50	96h	Fish	3744.6- 5000.7mg/L	4
	EC50	96h	Algae or other aquatic plants	9.873- 27.684mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
harder and an arrangliant	LC50	96h	Fish	24.11mg/l	2
hydrocarbon propellant	EC50(ECx)	96h	Algae or other aquatic plants	7.71mg/l	2
	EC50	96h	Algae or other aquatic plants	7.71mg/l	2
Legend:	4. US EPA, Ed	,	e ECHA Registered Substances - Ecotoxicologic Data 5. ECETOC Aquatic Hazard Assessment Da	•	

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

oxygen transfer between the air and the water

Oils of any kind can cause:

- b drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- lethal effects on fish by coating gill surfaces, preventing respiration
- asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and
- adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation.

For Petroleum Hydrocarbon Gases:

Environmental Fate: Petroleum hydrocarbon gases are primarily produced in petroleum refineries, or in gas plants that separate natural gas and natural gas liquids. This category contains 99 petroleum hydrocarbon gas substances, the majority of which never reach the consumer. Petroleum hydrocarbon gases do not contain inorganic compounds, (e.g. hydrogen sulfide, ammonia, and carbon monoxide), other than asphyxiant gases; the low molecular weight hydrocarbon molecules are primarily responsible for the hazard associated with these gases.

Atmospheric Fate: All components of these gases will evaporate to the air where interaction with hydroxyl radicals is an important fate process.

For Ketones: Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds.

Aquatic Fate: Hydrolysis of ketones in water is thermodynamically favourable only for low molecular weight ketones. Reactions with water are reversible with no permanent change in the structure of the ketone substrate. Ketones are stable to water under ambient environmental conditions.

For Isobutene (Refrigerant Gas): Koc: 35, (estimated); Henry s Law Constant: 4.08 atm-cu m/mole; Vapor Pressure: 2611 mm Hg @ 25 deg C; BCF: 74, (estimated)

Atmospheric Fate: Isobutane is a gas at ordinary temperatures. The substance is highly flammable and explosive. It is degraded in the atmosphere by reactions with hydroxyl radicals; the half-life for this reaction in air is 6.9 days.

For Cyclohexanes: log Kow: 3.44; Water Solubility: 54.8 mg/L (25 C); Vapor Pressure: 97.6 mm Hg (25 C); Henry s Law Constant: 0.193 atm-m3/mole; Koc: 480; Half-life (hr) air: 6-52; Half-life (hr) H2O surface water: 2; ThOD: 3.42. BCF: 242.

Atmospheric Fate: In the atmosphere, cyclohexane will degrade by reaction with photochemically produced hydroxyl radicals (half-life 52 hours). Photodegradation occurs in about 6 hours in the presence of nitrogen oxides (photochemical smog conditions).

For Propane: Koc 460. log

Kow 2.36.

Henry's Law constant of 7.07x10-1 atm-cu m/mole, derived from its vapour pressure, 7150 mm Hg, and water solubility, 62.4 mg/L. Estimated BCF: 13.1.

DO NOT discharge into sewer or waterways.

For Acetone: log Kow: -0.24;

Half-life (hr) air : 312-1896; Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05

BOD 5: 0.31-1.76,46-55% COD: 1.12-2.07

ThOD: 2.2BCF: 0.69.

Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source.

Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment. In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
cyclohexane	HIGH (Half-life = 360 days)	LOW (Half-life = 3.63 days)
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
cyclohexane	LOW (BCF = 242)
acetone	LOW (BCF = 0.69)

Mobility in soil

Ingredient	Mobility
cyclohexane	LOW (Log KOC = 165.5)
acetone	HIGH (Log KOC = 1.981)

SECTION 13 Disposal considerations

Waste treatment methods

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.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- Reuse
- ▶ Recycling
- Disposal (if all else fails)

Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- 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.
- Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- ▶ **DO NOT** incinerate or puncture aerosol cans.

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

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

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







HAZCHEM

Not Applicable

Land transport (UN)

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

Air transport (ICAO-IATA / DGR)

14.1. UN number 1950 14.2. UN proper shipping name Aerosols, flammable 14.3. Transport hazard class(es) ICAO/IATA Class
14.3. Transport hazard class(es) ICAO / IATA Subsidiary Hazard Not Applicable ERG Code 10L
14.3. Transport hazard class(es) ICAO / IATA Subsidiary Hazard Not Applicable ERG Code 10L
class(es) ERG Code ICAO / IATA Subsidiary Hazard Not Applicable ERG Code 10L
ERG Code 10L
14.4. Packing group Not Applicable
14.5. Environmental hazard Environmentally hazardous
Special provisions A145 A167 A802
Cargo Only Packing Instructions 203
Cargo Only Maximum Qty / Pack 150 kg
14.6. Special precautions for user Passenger and Cargo Packing Instructions 203
Passenger and Cargo Maximum Qty / Pack 75 kg
Passenger and Cargo Limited Quantity Packing Instructions Y203
Passenger and Cargo Limited Maximum Qty / Pack 30 kg G

Sea transport (IMDG-Code / GGVSee)

	·			
14.1. UN number	1950			
14.2. UN proper shipping name	AEROSOLS			
14.3. Transport hazard			2.1	
class(es)			Not Applicable	
14.4. Packing group	Not Applicable			
14.5 Environmental hazard	Marine Pollutant			
14.6. Special precautions	EMS Number	F-D , S-		
for user	Special provisions 63 1		277 327 344 381 959	
	Limited Quantities	1000 m	nl	

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

Not Applicable

Product name	Group
cyclohexane	Not Available
acetone	Not Available
hydrocarbon propellant	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
cyclohexane	Not Available
acetone	Not Available
hydrocarbon propellant	Not Available

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

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

cyclohexane is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

acetone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

hydrocarbon propellant is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
2.1.2A	3 000 L (aggregate water capacity)	3 000 L (aggregate water capacity)

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
2.1.2A				1L (aggregate water capacity)

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (cyclohexane; acetone; hydrocarbon propellant)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	Yes			
Japan - ENCS	Yes			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'			
Taiwan - TCSI	Yes			
Mexico - INSQ	Yes			
Vietnam - NCI	Yes			
Russia - FBEPH	Yes			
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will requir registration.			

SECTION 16 Other information

Revision Date	10/03/2023
Initial Date	03/03/2016

SDS Version Summary

Version	Date of Update	Sections Updated	
8.1	10/12/2021	Classification change due to full database hazard calculation/update.	
9.1	10/03/2023	Classification change due to full database hazard calculation/update.	

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。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- 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
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

This document is copyright.

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.