Callington Haven Pty Ltd

Chemwatch: **22-4972** Version No: **9.1** Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 Chemwatch Hazard Alert Code: 3

Issue Date: 10/12/2020 Print Date: 16/03/2022 S.GHS.NZL.EN

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

Product Identifier		
Product name	D-100 Aerosol Developer	
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	Used in NDT testing as a developer.
Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack

Details of the supplier of the safety data sheet

Registered company name	Callington Haven Pty Ltd	
Address	30 South Street Rydalmere NSW 2116 Australia	
Telephone	1 2 9898 2700	
Fax	+61 2 9475 0449	
Website	www.callingtonhaven.com	
Email	customerservice@callington.com	

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	+64 800 700 112	
Other emergency telephone numbers	+61 2 9186 1132	

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

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Acute Toxicity (Oral) Category 5, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Aerosols Category 1	
Legend:	1. Classified by Chernwatch; 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, 6.1E (oral), 6.4A, 6.9B (narcotic effects)	

Label elements

Signal word Da

Danger

Hazard statement(s)

H303	May be harmful if swallowed.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H222	Extremely flammable aerosol.	

Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing mist/vapours/spray.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P264 Wash all exposed external body areas thoroughly after handling.		

Precautionary statement(s) Response

······································		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
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.	
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.		

Precautionary statement(s) Storage

• • • • • • •	•		
P405 Store locked up.			
P403+P233 Store in a well-ventilated place. Keep container tightly closed.			

Precautionary statement(s) Disposal

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
67-63-0	30-60	isopropanol
14807-96-6	10-20	talc
68476-85-7.	30-60	hydrocarbon propellant
Not Available		Ingredients determined not to be hazardous
Legend:	1. Classified by Chernwatch; 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 measur	es
Eye Contact	 If this product comes in contact with the eyes: Wash out immediately 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. 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. 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. Transport to hospital, or doctor.
Ingestion	 Not considered a normal route of entry. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to isopropanol:

- Rapid onset respiratory depression and hypotension indicates serious ingestions that require careful cardiac and respiratory monitoring together with immediate intravenous access.
- Rapid absorption precludes the usefulness of emesis or lavage 2 hours post-ingestion. Activated charcoal and cathartics are not clinically useful. Ipecac is most useful when given 30 mins. post-ingestion.
- There are no antidotes.
- Management is supportive. Treat hypotension with fluids followed by vasopressors.
- Watch closely, within the first few hours for respiratory depression; follow arterial blood gases and tidal volumes.
- ▶ Ice water lavage and serial haemoglobin levels are indicated for those patients with evidence of gastrointestinal bleeding.

SECTION 5 Firefighting measures

Extinguishing media

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

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with strong oxidising agents 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. If safe, switch off electrical equipment until vapour fire hazard removed. 		
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. Vapour may travel a considerable distance to source of ignition. Other combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. 		

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. Wipe up.
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. Prevent, by any means available, spillage from entering drains or water courses No smoking, naked lights or ignition sources.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 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. DO NOT enter confined spaces until atmosphere has been checked.
Other information	 Store in original containers in approved flame-proof 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. Contents under pressure.

Conditions for safe storage, including any incompatibilities

Suitable container	 Aerosol dispenser. Check that containers are clearly labelled.
Storage incompatibility	Avoid storage with oxidisers

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)	
INGREDIENT DATA	

Material name

TWA

Peak

STEL

Notes

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	isopropanol	Isopropyl alcohol	400 ppm / 983 mg/m3	1230 mg/m3 / 500 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	talc	Talc (containing no asbestos fibres) respirable dust	2 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	talc	Soapstone respirable dust	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	hydrocarbon propellant	LPG (Liquefied petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
isopropanol	400 ppm	2000* ppm		12000** ppm
hydrocarbon propellant	65,000 ppm	2.30E+05 ppm		4.00E+05 ppm
Ingredient	Original IDLH		Revised IDLH	
isopropanol	2,000 ppm		Not Available	
talc	1,000 mg/m3		Not Available	
hydrocarbon propellant	2,000 ppm		Not Available	

Exposure controls

•	
Appropriate engineering controls	Use in a well-ventilated area General exhaust is adequate under normal operating conditions.
Personal protection	
Eye and face protection	No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE : For potentially moderate or heavy exposures: Safety glasses with side shields. NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.
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
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Skin cleansing cream. • Eyewash unit. • Do not spray on hot surfaces.

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:

D-100 Aerosol Developer

Material	СРІ
NEOPRENE	А
NITRILE	A
NITRILE+PVC	A
PE/EVAL/PE	A
PVC	В
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+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

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

^ - Full-face

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)

Continued...

D-100 Aerosol Developer

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	water. Sweet solvent odour. Dries to white powder. Supplied as an aerosol pack. Contents under PRESSURE . Contains highly flammable hydrocarbon propellant.			
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 Applicable	Decomposition temperature	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)	11.7 (isoprop)	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available	
Upper Explosive Limit (%)	9.5	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	1.8	Volatile Component (%vol)	Not Available	
Vapour pressure (kPa)	345 @ 21C	Gas group	Not Available	
Solubility in water	Miscible	pH as a solution (Not Available%)	Not Applicable	
Vapour density (Air = 1)	>1	VOC g/L	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

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. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.				
Ingestion	Not normally a hazard due to physical form of product. The liquid is discomforting Ingestion may result in nausea, abdominal irritation, pain and vomiting				
Skin Contact	The liquid may produce skin discomfort following prolonged contact. Defatting and/or drying of the skin may lead to dermatitis The material may accentuate any pre-existing skin condition				
Eye	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.				
Chronic	Long term, or repeated exposure of isopropanol may cause inco-ordi Repeated inhalation exposure to isopropanol may produce sleepines effects only at exposure levels that produce toxic effects in adult anin There are inconclusive reports of human sensitisation from skin conta Prolonged or continuous skin contact with the liquid may cause defat WARNING: Aerosol containers may present pressure related hazard	s, inco-ordination and liver degeneration. Animal data show developmental nals. Isopropanol does not cause genetic damage. acts with isopropanol. ting with drying, cracking, irritation and dermatitis following.			
	тохісітү	IRRITATION			
D-100 Aerosol Developer	D-100 Aerosol Developer Not Available Not Available				
	ΤΟΧΙΟΙΤΥ	IRRITATION			
isopropanol	Dermal (rabbit) LD50: 12800 mg/kg ^[2]	Eye (rabbit): 10 mg - moderate			
	Inhalation(Mouse) LC50; 53 mg/L4h ^[2] Eye (rabbit): 100 mg - SEVERE				

	Oral (Mouse) LD50; 3600 mg/kg ^[2]	Eye (rabbit): 100mg/24hr-moderate		
		Skin (rabbit): 500 mg - mild		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]		
talc	Inhalation(Rat) LC50; >2.1 mg/l4h ^[1]	Skin (human): 0.3 mg/3d-l mild		
	Oral (Rat) LD50; >5000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]		
	тохісіту	IRRITATION		
hydrocarbon propellant	Inhalation(Rat) LC50; 658 mg/l4h ^[2] Not Available			
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances			

Respiratory or Skin sensitisation Mutagenicity	x x	STOT - Repeated Exposure Aspiration Hazard	× ×		
Serious Eye Damage/Irritation	*	STOT - Single Exposure	*		
Skin Irritation/Corrosion	×	Reproductivity	×		
Acute Toxicity	✓	Carcinogenicity	×		
TALC & HYDROCARBON PROPELLANT	No significant acute toxicological data identified in litera	ture search.			
ISOPROPANOL & TALC	Asthma-like symptoms may continue for months or eve known as reactive airways dysfunction syndrome (RAD criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a doc airflow pattern on lung function tests, moderate to seve lymphocytic inflammation, without eosinophilia. RADS (the concentration of and duration of exposure to the irri The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limite	S) which can occur after exposure to evious airways disease in a non-atop umented exposure to the irritant. Oth re bronchial hyperreactivity on meth or asthma) following an irritating inh tating substance.	b high levels of highly irritating compound. Main bic individual, with sudden onset of persistent ner criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal		
HYDROCARBON PROPELLANT	inhalation of the gas				
TALC	The overuse of talc in nursing infants has resulted in respiratory damage causing fluid in the lungs and lung inflammation which may lead to death within hours of inhalation. Long-term exposure can also cause a variety of respiratory symptoms.				
ISOPROPANOL	Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have reported skin irritation. It can be absorbed from the skin or when inhaled. Intentional swallowing is common particularly among alcoholics or suicide victims and also leads to fainting, breathing difficulty, nausea, vomiting and headache. The material may cause 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.				

SECTION 12 Ecological information

Toxicity

D-100 Aerosol Developer	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available	Not Available Not Available Av		Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50(ECx)	24h	Algae or other aquatic plants		0.011mg/L	4
isopropanol	LC50	96h	Fish	Fish 4200mg		4
	EC50	72h	Algae or other aquatic plants	Algae or other aquatic plants >1000mg		1
	EC50	48h	Crustacea	Crustacea 75		4
	EC50	96h	Algae or other aquatic plants		>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Va	alue	Sourc
(a).	NOEC(ECx)	720h	Algae or other aquatic plants	91	8.089mg/l	2
talc	LC50	96h	Fish	89	9581.016mg/l	2
	EC50	96h	Algae or other aquatic plants	Algae or other aquatic plants 7202.7mg/l		2
	Endpoint	Test Duration (hr)	Species		Value	Sourc
hydrocarbon propellant	EC50(ECx)	96h	Algae or other aquatic plants		7.71mg/l	2

LC50	96h	Fish	24.11mg/l	2
EC50	96h	Algae or other aquatic plants	7.71mg/l	2
EC50(ECx)	96h	Algae or other aquatic plants	7.71mg/l	2
LC50	96h	Fish	24.11mg/l	2
EC50	96h	Algae or other aquatic plants	7.71mg/l	2

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)

Bioaccumulative potential	
Ingredient	Bioaccumulation
isopropanol	LOW (LogKOW = 0.05)
Mobility in soil	
Ingredient	Mobility

SECTION 13 Disposal considerations

Waste treatment methods				
Product / Packaging disposal	 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. Bury residues and emptied aerosol cans at an approved site. 			

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

Disposal Requirements

isopropanol

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. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

SECTION 14 Transport information

Labels Required



HIGH (KOC = 1.06)

 Marine Pollutant
 NO

 HAZCHEM
 Not Applicable

Land transport (UN)

UN number	950			
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)

UN number 1950

UN proper shipping name	Aerosols, flammable	Aerosols, flammable			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1 Not Applicable 10L			
Packing group	Not Applicable				
Environmental hazard	Not Applicable	Not Applicable			
Special precautions for user		Qty / Pack Packing Instructions	A145 A167 A802 203 150 kg 203 75 kg Y203 30 kg G		

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 NumberF-D, S-USpecial provisions63 190 277 327 344 381 959Limited Quantities1000 ml		

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

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
isopropanol	Not Available
talc	Not Available
hydrocarbon propellant	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
isopropanol	Not Available
talc	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 2020	
HSR002552	Cosmetic Products Group Standard 2020	

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

isopropanol is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) \mbox{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)

talc is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	Manufactured Nanomaterials (MNMS)
Monographs	New Zealand Inventory of Chemicals (NZIoC)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Workplace Exposure Standards (WES)
Monographs - Group 2B: Possibly carcinogenic to humans	
The second second second second	
hydrocarbon propellant is found on the following regulatory lists	
Chemical Footprint Project - Chemicals of High Concern List	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
New Zealand Approved Hazardous Substances with controls	of Chemicals - Classification Data
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	New Zealand Inventory of Chemicals (NZIoC)

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)

New Zealand Workplace Exposure Standards (WES)

Certified Handler

of Chemicals

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 (isopropanol; talc; 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	Yes
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 require registration.

SECTION 16 Other information

Revision Date	10/12/2020
Initial Date	05/11/2009

SDS Version Summary

Version	Date of Update	Sections Updated	
8.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification	
9.1	10/12/2020	Acute Health (inhaled)	

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 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.

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