

# ULTRALEASE EPX GP BARNES PRODUCTS PTY LTD

Chemwatch: 5595-83 Version No: 2.1

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

### Chemwatch Hazard Alert Code: 4

Issue Date: **13/04/2023** Print Date: **19/06/2023** S.GHS.NZL.EN.E

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

### **Product Identifier**

Product name	ULTRALEASE EPX GP		
Chemical Name	Not Applicable		
Synonyms	EPOXY PARFILM		
Proper shipping name	EROSOLS (contains dimethyl ether and 1,1-difluoroethane)		
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

Release agent.
Use according to manufacturer's directions.

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

Registered company name	BARNES PRODUCTS PTY LTD			
Address	GREENHILLS AVE MOOREBANK NSW 2170 Australia			
Telephone	nes Australia +612 9793 7555 Mon-Fri 8am-4:30pm			
Fax	Barnes Australia +612 9793 7091			
Website	www.barnesnz.co.nz			
Email	sales@barnes.com.au			

# Emergency telephone number

Association / Organisation	New Zealand Poisons Information Centre		
Emergency telephone numbers	arnes NZ +649 9731 816 - Monday-Thursday 9am-5pm Friday 9am-4.30pm		
Other emergency telephone numbers	New Zealand Poisons Information Centre 0800 764 766 After Hours		

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Classification <sup>[1]</sup>	Aerosols Category 1, Serious Eye Damage/Eye Irritation Category 2, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3			
Legend:	. 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, 6.4A, 6.8B, 9.1C			

# Label elements

Hazard pictogram(s)







Signal word Danger

# Hazard statement(s)

H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.			
H319	Causes serious eye irritation.			
H361	Suspected of damaging fertility or the unborn child.			
H412	Harmful to aquatic life with long lasting effects.			

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# 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	not spray on an open flame or other ignition source.				
P251	o not pierce or burn, even after use.				
P280	Wear protective gloves, protective clothing, eye protection and face protection.				
P273	Avoid release to the environment.				
P264	Wash all exposed external body areas thoroughly after handling.				

# Precautionary statement(s) Response

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

### 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 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	
75-37-6	50-60	1.1-difluoroethane	
115-10-6	30-40	dimethyl ether	
68037-77-4	1-5	phenylisopropyl dimethicone	
64742-49-0.	1-5	naphtha petroleum, light, hydrotreated.	
Legend:	Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;     Classification drawn from C&L * EU IOELVs available		

# **SECTION 4 First aid measures**

# Description of first aid measures

Skin Contact	<ul> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> <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	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	Not considered a normal route of entry.  If poisoning occurs, contact a doctor or Poisons Information Centre.  Avoid giving milk or oils.  Avoid giving alcohol.

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

# **Extinguishing media**

SMALL FIRE:

• Water spray, dry chemical or CO2

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### 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

### FOR FIRES INVOLVING MANY GAS CYLINDERS:

- To stop the flow of gas, specifically trained personnel may inert the atmosphere to reduce oxygen levels thus allowing the capping of leaking container(s).
- Reduce the rate of flow and inject an inert gas, if possible, before completely stopping the flow to prevent flashback.
- ▶ DO NOT extinguish the fire until the supply is shut off otherwise an explosive re-ignition may occur.
- If the fire is extinguished and the flow of gas continues, used increased ventilation to prevent build-up, of explosive atmosphere.
- Use non-sparking tools to close container valves.
- ▶ Be CAUTIOUS of a Boiling Liquid Evaporating Vapour Explosion, BLEVE, if fire is impinging on surrounding containers.
- ▶ Direct 2500 litre/min (500 gpm) water stream onto containers above liquid level with the assistance remote monitors
- 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.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- ▶ **DO NOT** approach containers suspected to be hot.

Fire Fighting

# GENERAL

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive
- Wear breathing apparatus plus protective gloves.
- Consider evacuation
- Fight fire from a safe distance, with adequate cover.
- If safe, switch off electrical equipment until vapour fire hazard removed.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- DO NOT approach cylinders suspected to be hot.

- 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.
- Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames.

### Fire/Explosion Hazard

Combustion products include:

carbon monoxide (CO) carbon dioxide (CO2)

hydrogen fluoride

silicon dioxide (SiO2)

other pyrolysis products typical of burning organic material.

Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.

### **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

**Major Spills** 

	1
	1
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.
- If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.
- Undamaged cans should be gathered and stowed safely.
- Remove leaking cylinders to a safe place. Fit vent pipes. Release pressure under safe, controlled conditions
- Burn issuing gas at vent pipes.
- DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve. 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.
- Increase ventilation.
  - Stop leak if safe to do so.
  - Clear area of all unprotected personnel and move upwind.
  - Alert Emergency Authority and advise them of the location and nature of hazard.
  - May be violently or explosively reactive.
  - Wear full body clothing with breathing apparatus.
  - Prevent by any means available, spillage from entering drains and water-courses.

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- ► Consider evacuation
- ▶ Shut off all possible sources of ignition and increase ventilation.

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

# **SECTION 7 Handling and storage**

### Precautions for safe handling

- Avoid all personal contact, including inhalation.
  - Wear protective clothing when risk of exposure occurs.
  - Use in a well-ventilated area.
- Safe handling
- Prevent concentration in hollows and sumps.
- ▶ DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- ► Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

# Other information

For major quantities:

- Consider storage in bunded areas ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).
- Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities
- ▶ Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can

### Conditions for safe storage, including any incompatibilities

### Suitable container

- Aerosol dispenser.
- Check that containers are clearly labelled.
- Storage incompatibility
- Avoid strong acids, bases
- Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances
- 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)	dimethyl ether	Dimethylether	400 ppm / 766 mg/m3	958 mg/m3 / 500 ppm	Not Available	Not Available

### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
1,1-difluoroethane	Not Available	Not Available	Not Available
dimethyl ether	3,000 ppm	3800* ppm	7200* ppm
naphtha petroleum, light, hydrotreated.	1,000 mg/m3	11,000 mg/m3	66,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
1,1-difluoroethane	Not Available	Not Available
dimethyl ether	Not Available	Not Available
phenylisopropyl dimethicone	Not Available	Not Available
naphtha petroleum, light, hydrotreated.	Not Available	Not Available

# Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
1,1-difluoroethane	E	≤ 0.1 ppm	
naphtha petroleum, light, hydrotreated.	E	≤ 0.1 ppm	

# Notes:

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

### **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.

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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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure Individual protection measures, such as personal protective equipment Safety glasses with side shields Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]

## Eve and face protection

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. 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. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.

Close fitting gas tight goggles

### Skin protection

### See Hand protection below

# Hands/feet protection

- ▶ Butyl rubber gloves
- ▶ 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**

Other protection

### See Other protection below

No special equipment needed when handling small quantities.

### OTHERWISE:

- Overalls
- Skin cleansing cream.
- Eyewash unit.
- Do not spray on hot surfaces.
- 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.

# 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

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Material	СРІ
BUTYL	А
NEOPRENE	Α

\* 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

### 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	Air-line*	AX-2	AX-PAPR-2 ^
up to 20 x ES	-	AX-3	-
20+ x ES	-	Air-line**	-

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

- 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
- Generally not applicable.

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

**Appearance** 

Clear colourless aerosol with slight ether odour, partly miscible in water.

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Physical state	Compressed Gas	Relative density (Water = 1)	<1
Odour	Slight	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	26.7	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	3.4	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	496	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **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

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 toxic gases may cause:

- ▶ Central Nervous System effects including depression, headache, confusion, dizziness, stupor, coma and seizures; Inhaled
  - respiratory: acute lung swellings, shortness of breath, wheezing, rapid breathing, other symptoms and respiratory arrest;
  - heart: collapse, irregular heartbeats and cardiac arrest;
  - gastrointestinal: irritation, ulcers, nausea and vomiting (may be bloody), and abdominal pain.

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.

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

**Skin Contact** 

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.

Overexposure is unlikely in this form. Not normally a hazard due to physical form of product.

Considered an unlikely route of entry in commercial/industrial environments

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.

There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.

Spray mist may produce discomfort

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Eye Chronic

This material can cause eye irritation and damage in some persons. Not considered to be a risk because of the extreme volatility of the gas.

Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.

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.

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TOXICITY	IRRITATION
Not Available	Not Available

Acute Toxicity X

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	TOXICITY	IRRITATION
1,1-difluoroethane	Inhalation(Rat) LC50: >437500 ppm4h <sup>[1]</sup>	Not Available
	Oral (Rat) LD50: 484 mg/kg <sup>[2]</sup>	
	Inhalation(Rat) LC50: >437500 ppm4h <sup>[1]</sup> Oral (Rat) LD50: 484 mg/kg <sup>[2]</sup> TOXICITY Inhalation(Rat) LC50: >20000 ppm4h <sup>[1]</sup> Not Available  TOXICITY Inhalation(Rat) LC50: >20000 ppm4h <sup>[1]</sup> Not Available  TOXICITY IRRITATION Not Available  TOXICITY IRRITATION Not Available  TOXICITY IRRITATION  Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup> Eye: no adverse effect of Inhalation(Rat) LC50: >4.42 mg/L4h <sup>[1]</sup> Skin: adverse effect observation of the period of	IRRITATION
dimethyl ether	Inhalation(Rat) LC50: >20000 ppm4h <sup>[1]</sup>	Not Available
	TOXICITY	IRRITATION
phenylisopropyl dimethicone	Not Available	Not Available
	TOXICITY	IRRITATION
naphtha petroleum, light,	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
hydrotreated.	Inhalation(Rat) LC50: >4.42 mg/L4h <sup>[1]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>
	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	
Legend:		
1,1-DIFLUOROETHANE	and over) may cause reduced contraction of heart muscle damaging genetic material in cells. Studies have not show	and at even higher levels, heartbeat irregularities. It seems to have a weak effect in
PHENYLISOPROPYL DIMETHICONE		
NAPHTHA PETROLEUM, LIGHT, HYDROTREATED.	LBPNs generally have low acute toxicity by the oral (media and dermal (LD50 in rabbits > 2000 mg/kg-bw) routes of e Most LBPNs are mild to moderate eye and skin irritants in naphthas, which have higher primary skin irritation indices Sensitisation:  LBPNs do not appear to be skin sensitizers, but a poor res Repeat dose toxicity:  The lowest-observed-adverse-effect concentration (LOAEd short-term (2-89 days) and subchronic (greater than 90 de endpoints after considering the toxicity data for all LBPNs i Renal effects, including increased kidney weight, renal lesi rats exposed orally or by inhalation to most LBPNs, were comechanism of action not relevant to humans - specifically, the enzyme not produced in substantial amounts in female rations as subsequent carcinogenesis in male rats were therefore no Only a limited number of studies of short-term and subchrothese studies, via the inhalation route, is 5475 mg/m3, bas following a 13-week exposure to light catalytic cracked national systemic toxicity was reported following dermal exposus histopathological changes were increased, in a dose-deperor 90 days in rats  No non-cancer chronic toxicity studies (= 1 year) were ideridentified for other LBPNs.  Animal studies indicate that normal, branched and cyclic pn-paraffins is inversely proportional to the carbon chain ler be present in mineral oil, n-paraffins may be absorbed to a The major classes of hydrocarbons are well absorbed into hydrocarbons are ingested in association with fats in the determining the proportion of hydrocarbon that becomes a or the liver.  For petroleum: This product contains benzene, which can compounds which are toxic to the nervous system. This product contains ethyl benzene and m Cancer-causing potential: Animal testing shows inhaling probe relevant in humans.  Mutation-causing potential: Animal testing shows inhaling probe relevant in humans.  Mutation-causing potential: Most studies involving gasoline all recent studies in living human subjects (such as in petro Reproductive toxicity: Ani	xposure rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed sponse in the positive control was also noted in these studies  C) and lowest-observed-adverse-effect level (LOAEL) values identified following the possibility of the LBPN substances. These values were determined for a variety of in the group. Most of the studies were carried out by the inhalation route of exposure ions (renal tubule dilation, necrosis) and hyaline droplet formation, observed in male considered species- and sex-specific These effects were determined to be due to a the interaction between hydrocarbon metabolites and alpha-2-microglobulin, and species, including humans. The resulting nephrotoxicity and to considered in deriving LOAEC/LOAEL values.  Sonic duration were identified for site-restricted LBPNs. The lowest LOAEC identified in seed on a concentration-related increase in liver weight in both male and female rats obtha. Shorter exposures of rats to this test substance resulted in nasal irritation at the light catalytic cracked naphtha, but skin irritation and accompanying undent manner, at doses as low as 30 mg/kg-bw per day when applied 5 days per ween tified for site-restricted LBPNs and very few non-cancer chronic toxicity studies were arraffins are absorbed from the gastrointestinal tract and that the absorption of the night, with little absorption above C30. With respect to the carbon chain lengths likely to a greater extent than iso- or cyclo-paraffins.  The gut cell may play a major role in twailable to be deposited unchanged in peripheral tissues such as in the body fat store cause acute myeloid leukaemia, and n-hexane, which can be metabolized to roduct contains toluene, and animal studies suggest high concentrations of toluene leavaphthalene, from which animal testing shows evidence of tumour formation. etroleum causes tumours of the liver and kidney; these are however not considered to entrations of toluen
PHENYLISOPROPYL DIMETHICONE & NAPHTHA	conjunctivitis.  No significant acute toxicological data identified in literatur.	

Carcinogenicity

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Skin Irritation/Corrosion	×	Reproductivity	✓
Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

# **SECTION 12 Ecological information**

### **Toxicity**

ULTRALEASE EPX GP	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Algae or other aquatic plants	47.755mg/l	2
1,1-difluoroethane	EC50	96h	Algae or other aquatic plants	47.755mg/l	2
	LC50	96h	Fish	291.31mg/l	2
	EC50	48h	Crustacea	146.695mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	1783.04mg/l	2
dimethyl ether	EC50	48h	Crustacea	>4400mg/L	2
	NOEC(ECx)	48h	Crustacea	>4000mg/l	1
	EC50	96h	Algae or other aquatic plants	154.917mg/l	2
phenylisopropyl dimethicone	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	504h	Crustacea	0.17mg/l	2
naphtha petroleum, light, hydrotreated.	LC50	96h	Fish	4.26mg/l	2
nydrotreated.	EC50	96h	Algae or other aquatic plants	64mg/l	2
	EC50	48h	Crustacea	0.64mg/l	2
Legend:	Ecotox databas		HA Registered Substances - Ecotoxicological Informatic Aquatic Hazard Assessment Data 6. NITE (Japan) - Bio		

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
1,1-difluoroethane	LOW	LOW
dimethyl ether	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
1,1-difluoroethane	LOW (LogKOW = 0.75)
dimethyl ether	LOW (LogKOW = 0.1)

# Mobility in soil

Ingredient	Mobility
1,1-difluoroethane	LOW (KOC = 35.04)
dimethyl ether	HIGH (KOC = 1.292)

# **SECTION 13 Disposal considerations**

# Waste treatment methods

Product / Packaging disposal

- ▶ 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.

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- ▶ 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**

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. DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

- (1) a blast overpressure of more than 9 kPa; or
- (2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

# **SECTION 14 Transport information**

### Labels Required



Marine Pollutant

HAZCHEM

Not Applicable

### Land transport (UN)

UN number or ID number	1950		
UN proper shipping name	AEROSOLS (contains dimethyl ether and 1,1-difluoroethane)		
Transport hazard class(es)	Class 2.1 Subsidiary risk 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 UN proper shipping name Aerosols, flammable (contains dimethyl ether and 1,1-difluoroethane)    ICAO/IATA Class   2.1     ICAO / IATA Subrisk   Not Applicable     ERG Code   10L		7			
Transport hazard class(es)    ICAO / IATA Subrisk   Not Applicable	UN number	1950			
Transport hazard class(es)  ICAO / IATA Subrisk Not Applicable  ERG Code 10L  Packing group Not Applicable  Environmental hazard Not Applicable  Special provisions A145 A167 A802  Cargo Only Packing Instructions 203  Cargo Only Maximum Qty / Pack 150 kg  Passenger and Cargo Packing Instructions 203  Passenger and Cargo Maximum Qty / Pack 75 kg  Passenger and Cargo Limited Quantity Packing Instructions Y203	UN proper shipping name	Aerosols, flammable (co	Aerosols, flammable (contains dimethyl ether and 1,1-difluoroethane)		
Packing group Not Applicable  Environmental hazard Not Applicable  Special provisions A145 A167 A802  Cargo Only Packing Instructions 203  Cargo Only Maximum Qty / Pack 150 kg  Passenger and Cargo Packing Instructions 203  Passenger and Cargo Maximum Qty / Pack 75 kg  Passenger and Cargo Limited Quantity Packing Instructions Y203					
Packing group Not Applicable  Environmental hazard Not Applicable  Special provisions A145 A167 A802  Cargo Only Packing Instructions 203  Cargo Only Maximum Qty / Pack 150 kg  Passenger and Cargo Packing Instructions 203  Passenger and Cargo Maximum Qty / Pack 75 kg  Passenger and Cargo Limited Quantity Packing Instructions Y203	Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
Environmental hazard  Not Applicable  Special provisions  Cargo Only Packing Instructions  Cargo Only Maximum Qty / Pack  Passenger and Cargo Packing Instructions  203  Cargo Only Maximum Qty / Pack  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Limited Quantity Packing Instructions  Y203		ERG Code	10L		
Special provisions  Cargo Only Packing Instructions  Cargo Only Maximum Qty / Pack  Passenger and Cargo Packing Instructions  203  Cargo Only Maximum Qty / Pack  Passenger and Cargo Packing Instructions  203  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Limited Quantity Packing Instructions  Y203	Packing group	Not Applicable	Not Applicable		
Cargo Only Packing Instructions  Cargo Only Maximum Qty / Pack  150 kg  Passenger and Cargo Packing Instructions  203  Passenger and Cargo Maximum Qty / Pack  75 kg  Passenger and Cargo Limited Quantity Packing Instructions  Y203	Environmental hazard	Not Applicable			
Special precautions for user  Cargo Only Maximum Qty / Pack 150 kg  Passenger and Cargo Packing Instructions 203  Passenger and Cargo Maximum Qty / Pack 75 kg  Passenger and Cargo Limited Quantity Packing Instructions Y203		Special provisions		A145 A167 A802	
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		Cargo Only Packing Instructions		203	
Passenger and Cargo Maximum Qty / Pack 75 kg Passenger and Cargo Limited Quantity Packing Instructions Y203		Cargo Only Maximum Qty / Pack		150 kg	
Passenger and Cargo Limited Quantity Packing Instructions Y203	Special precautions for user	Passenger and Cargo Packing Instructions		203	
		Passenger and Cargo Maximum Qty / Pack		75 kg	
Passenger and Cargo Limited Maximum Qty / Pack 30 kg G		Passenger and Cargo Limited Quantity Packing Instructions		Y203	
		Passenger and Cargo Limited Maximum Qty / Pack		30 kg G	

# Sea transport (IMDG-Code / GGVSee)

UN number	1950		
UN proper shipping name	AEROSOLS (contains dimethyl ether and 1,1-difluoroethane)		
Transport hazard class(es)	IMDG Class 2.1  IMDG Subrisk Not Applicable		
Packing group	Not Applicable		

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Environmental hazard	Not Applicable		
	EMS Number	F-D, S-U	
Special precautions for user	Special provisions	63 190 277 327 344 381 959	
	Limited Quantities	1000 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
1,1-difluoroethane	Not Available
dimethyl ether	Not Available
phenylisopropyl dimethicone	Not Available
naphtha petroleum, light, hydrotreated.	Not Available

### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
1,1-difluoroethane	Not Available
dimethyl ether	Not Available
phenylisopropyl dimethicone	Not Available
naphtha petroleum, light, hydrotreated.	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.

### 1,1-difluoroethane 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

# dimethyl ether 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)

New Zealand Inventory of Chemicals (NZIoC)

# phenylisopropyl dimethicone is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

# naphtha petroleum, light, hydrotreated. is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List
International Agency for Research on Cancer (IARC) - Agents Classified

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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)

# 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.

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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 (1,1-difluoroethane; dimethyl ether; phenylisopropyl dimethicone; naphtha petroleum, light, hydrotreated.)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (phenylisopropyl dimethicone)	
Japan - ENCS	No (naphtha petroleum, light, hydrotreated.)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	No (phenylisopropyl dimethicone)	
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**

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Initial Date	13/04/2023

# 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 Limit₀

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

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TEL (+61 3) 9572 4700.