# **MACWAX AEROSOL**

# **Barnes Products P/L**

Chemwatch: **7924-32** Version No: **2.1** 

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 4

Issue Date: **05/12/2024** Print Date: **09/12/2024** S.GHS.AUS.EN.E

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

#### **Product Identifier**

Product name	MACWAX AEROSOL
Chemical Name	Not Applicable
Synonyms	MACWAX RELEASE AGENT AEROSOL
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
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Lubricants, greases, release products

Application is by spray atomisation from a hand held aerosol pack

Use according to manufacturer's directions.

SDS are intended for use in the workplace ONLY. For domestic-use products, refer to consumer labels.

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

Registered company name	Barnes Products P/L	
Address	5 Greenhills Avenue Moorebank NSW 2170 Australia	
Telephone	+61 2 9793 7555	
Fax	+61 2 9793 7091	
Website	https://www.barnes.com.au/	
Email	sales@barnes.com.au	

### **Emergency telephone number**

Association / Organisation	Barnes Products Pty Ltd	
Emergency telephone number(s)	+61 2 9793 7555 Business Hours	
Other emergency telephone number(s)	Poisons Information Centre 13 1126 after hours	

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

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

# Chemwatch Hazard Ratings

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

Poisons Schedule	S5
Classification [1]	Aerosols, Hazard Category 1, 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 HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Hazard pictogram(s)







Signal word

Danger

# Hazard statement(s)

H222+H229

Extremely flammable aerosol. Pressurized container: may burst if heated.

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H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	
AUH044	Risk of explosion if heated under confinement.	
AUH066	AUH066 Repeated exposure may cause skin dryness and cracking.	

# 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.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	

# Precautionary statement(s) Response

P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P391	Collect spillage.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

# 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		
68476-85-7.	30-50	30-50 <u>LPG (liquefied petroleum gas)</u>	
109-66-0	10-30 <u>n-pentane</u>		
Not Available	10-30 aliphatic hydrocarbon		
78-78-4	1-10 <u>isopentane</u>		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HClS; 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 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, bagvalve 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 spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.  For advice, contact a Poisons Information Centre or a doctor at once.  Urgent hospital treatment is likely to be needed.  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.  Transport to hospital or doctor without delay.		

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#### 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 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
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Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition with violent container rupture.</li> <li>Aerosol cans may explode on exposure to naked flames.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>carbon monoxide (CO)</li> <li>Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.</li> </ul>
HAZCHEM	Not Applicable

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> </ul>

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

# **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> </ul>
Other information	<ul> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Keep containers securely sealed. Contents under pressure.</li> <li>Store away from incompatible materials.</li> <li>Store in a cool, dry, well ventilated area.</li> </ul>

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## Conditions for safe storage, including any incompatibilities

	ı
Suitable container	ı

Aerosol can

- Aerosol dispenser. Check that containers are clearly labelled.
- Storage incompatibility
- Avoid reaction with oxidising agents

#### SECTION 8 Exposure controls / personal protection

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### **INGREDIENT DATA**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	LPG (liquefied petroleum gas)	LPG (liquified petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	n-pentane	Pentane	600 ppm / 1770 mg/m3	2210 mg/m3 / 750 ppm	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
LPG (liquefied petroleum gas)	Not Available	Not Available
n-pentane	Not Available	Not Available
isopentane	Not Available	Not Available

#### **Exposure controls**

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. 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











# 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

- No special equipment needed when handling small quantities.
- OTHERWISE:
- Hands/feet protection
- 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**

No special equipment needed when handling small quantities. OTHERWISE:

Overalls.

# Other protection

Skin cleansing cream.

See Other protection below

- Evewash 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:

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Material	СРІ
PVA	Α
VITON	A
NITRILE	В
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE+PVC	С
PVC	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

# 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 5 x ES	Air-line*	AX-2	AX-PAPR-2 ^
up to 10 x ES	-	AX-3	-
10+ 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  $\label{eq:conditional} \mbox{dioxide}(\mbox{SO2}), \mbox{ $G$ = Agricultural chemicals, K = Ammonia}(\mbox{NH3}), \mbox{ $Hg$ = Mercury, NO = $1.00 km s and $1.00 km s = 1.00 km s a$ Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

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**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.

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**

Appearance	Aerosol with characteristic odour; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	0.603
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	230
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	-41	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-55	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 (%)	0.6	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
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	<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**

Inhaled

Ingestion

Information on toxicological effects

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.
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.

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.

Symptoms of pentane inhalation exposure may include hyperactivity, numbness and a persistent taste of gasoline. Inhalation of high vapour concentrations may result in coughing, headache, mild depression, inco-ordination, blurred vision, confusion, loss of appetite, nausea, vomiting, irregular heartbeat and unconsciousness.

# 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
Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result.

Skin Contact
The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.

Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.

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

## Continued...

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	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	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			
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. 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.			
	TOXICITY	TOXICITY IRRITATION		
MACWAX AEROSOL	Not Available	Not Available		
LPG (liquefied petroleum	TOXICITY	IRRITATION		
gas)	Inhalation (Rat) LC50: 658 mg/l4h <sup>[2]</sup>	Not Available		
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 3000 mg/kg <sup>[2]</sup>	Eye: no adve	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
n-pentane	Inhalation (Rat) LC50: >25.3 mg/l4h <sup>[1]</sup>	Skin: no adv	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>			
	тохісіту	IRRITATION		
isopentane	Inhalation (Rat) LC50: >25.3 mg/l4h <sup>[1]</sup>	Eve: no adve	rse effect observed (not irritating) <sup>[1]</sup>	
isopentane	- Initialation (Ital) 2000. F 2010 Ing. In	Lyc. no dave		
isopentane	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>		erse effect observed (not irritating) <sup>[1]</sup>	
isopentane  Legend:	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: no advi	obtained from manufacturer's SDS. Unless otherwise	
·	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered S	Skin: no advi	obtained from manufacturer's SDS. Unless otherwise es	
Legend:	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered S specified data extracted from RTECS - Register of	Skin: no advi	obtained from manufacturer's SDS. Unless otherwise es	
Legend:  LPG (LIQUEFIED PETROLEUM GAS)	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered S specified data extracted from RTECS - Register of  No significant acute toxicological data identified in	Skin: no advi	obtained from manufacturer's SDS. Unless otherwise es	
Legend:  LPG (LIQUEFIED PETROLEUM GAS)  N-PENTANE	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Specified data extracted from RTECS - Register of  No significant acute toxicological data identified in [GENIUM and CCINFO, V.W.&R.]	Skin: no advi	obtained from manufacturer's SDS. Unless otherwise es	
Legend:  LPG (LIQUEFIED PETROLEUM GAS)  N-PENTANE  Acute Toxicity	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered S specified data extracted from RTECS - Register of  No significant acute toxicological data identified in [GENIUM and CCINFO, V.W.&R.]	Skin: no advi	obtained from manufacturer's SDS. Unless otherwise as	
Legend:  LPG (LIQUEFIED PETROLEUM GAS)  N-PENTANE  Acute Toxicity  Skin Irritation/Corrosion  Serious Eye	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Specified data extracted from RTECS - Register of  No significant acute toxicological data identified in [GENIUM and CCINFO, V.W.&R.]	Skin: no advi	obtained from manufacturer's SDS. Unless otherwise is	

Legend:

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

# **SECTION 12 Ecological information**

# Toxicity

MACWAX AEROSOL	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
DO (limentia de retradamen	Endpoint	Test Duration (hr)	Species	Value	Source
PG (liquefied petroleum gas)	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	1.26mg/l	2
n-pentane	EC50(ECx)	8h	Algae or other aquatic plants	1mg/l	1
	EC50	48h	Crustacea	2.3mg/l	2
	LC50	96h	Fish	4.26mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	1.26mg/l	2
isopentane	EC50(ECx)	72h	Algae or other aquatic plants	1.26mg/l	2
	EC50	48h	Crustacea	2.3mg/l	1
	LC50	96h	Fish	4.26mg/l	2
Legend:			CHA Registered Substances - Ecotoxicological Informa C Aquatic Hazard Assessment Data 6. NITE (Japan) - L		

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

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Ingredient	Persistence: Water/Soil	Persistence: Air
n-pentane	LOW	LOW
isopentane	HIGH	HIGH

# Bioaccumulative potential

Ingredient	Bioaccumulation
LPG (liquefied petroleum gas)	LOW (LogKOW = 3.39)
n-pentane	LOW (BCF = 2.35)
isopentane	LOW (LogKOW = 2.72)

# Mobility in soil

Ingredient	Mobility
n-pentane	LOW (Log KOC = 80.77)
isopentane	LOW (Log KOC = 67.7)

# **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.

# **SECTION 14 Transport information**

# Labels Required



### Marine Pollutant



**HAZCHEM** 

Not Applicable

# Land transport (ADG)

14.1. UN nun numbe		1950	
14.2. UN pro name	per shipping	AEROSOLS	
14.3. Transpo		Class 2.1 Subsidiary Hazard Not Applicable	
14.4. Packing	g group	Not Applicable	
14.5. Enviror	nmental hazard	Environmentally hazardous	
14.6. Special user	precautions for	Special provisions         63 190 277 327 344 381           Limited quantity         1000ml	

# Air transport (ICAO-IATA / DGR)

• •	<u>'</u>			
14.1. UN number	1950			
14.2. UN proper shipping name	Aerosols, flammable (engine starting fluid)			
	ICAO/IATA Class	2.1		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
ciass(es)	ERG Code	10L		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Environmentally hazardous			
14.6. Special precautions for user	Special provisions		A1 A145 A167 A802	
	Cargo Only Packing Instructions		203	
	Cargo Only Maximum Qty / Pack		150 kg	
	Passenger and Cargo Packing In	structions	Forbidden	
	Passenger and Cargo Maximum	Qty / Pack	Forbidden	

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Passenger and Cargo Limited Quantity Packing Instructions	Forbidden
Passenger and Cargo Limited Maximum Qty / Pack	Forbidden

# Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1950			
14.2. UN proper shipping name	AEROSOLS			
14.3. Transport hazard	IMDG Class	2.1		
class(es)	IMDG Subsidiary Ha	IMDG Subsidiary Hazard Not Applicable		
14.4. Packing group	Not Applicable	Not Applicable		
14.5 Environmental hazard	Marine Pollutant			
	EMS Number	F-D , S-U		
14.6. Special precautions for user	Special provisions	63 190 277 327 344 381 959		
	Limited Quantities	1000 ml		

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

Not Applicable

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

Product name	Group
LPG (liquefied petroleum gas)	Not Available
n-pentane	Not Available
isopentane	Not Available

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

Product name	Ship Type
LPG (liquefied petroleum gas)	Not Available
n-pentane	Not Available
isopentane	Not Available

# **SECTION 15 Regulatory information**

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

# LPG (liquefied petroleum gas) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

# n-pentane is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

# isopentane is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

# **Additional Regulatory Information**

Not Applicable

National Inventory Status	
National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (LPG (liquefied petroleum gas); n-pentane; isopentane)
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

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**National Inventory** Status Mexico - INSQ Yes Vietnam - NCI Yes Russia - FBEPH Yes = All CAS declared ingredients are on the inventory

#### **SECTION 16 Other information**

Revision Date	05/12/2024
Initial Date	05/12/2024

No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### Other information

Legend:

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
- ▶ MARPOL: International Convention for the Prevention of Pollution from Ships
- ▶ IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- 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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