# FLASHLUBE PTY LTD

Chemwatch: 5629-89 Version No: 2.2

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

Chemwatch Hazard Alert Code: 3

Issue Date: **16/11/2023** Print Date: **10/02/2025** S.GHS.AUS.EN.E

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

FLASHLUBE COOLANT CONCENTRATE
Not Applicable
Not Available
Not Applicable
FLCC1L, FLCC20L, FLCC5L   UFI: U4U7-8P4J-KQNS-U531
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### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	AUTOMOTIVE COOLANT CONCENTRATE
	Use according to manufacturer's directions.

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

Registered company name	FLASHLUBE PTY LTD
Address	249-263 Sunshine Road Tottenham VIC 3012 Australia
Telephone	03 9325 9700 03 9325 9771
Fax	Not Available
Website	www.flashlube.com
Email	sales@flashlube.com.au

## Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	+61 1800 951 288
Other emergency telephone number(s)	+61 3 9573 3188

### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Repeated Exposure 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)	
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Signal word Warning

#### Hazard statement(s)

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

## Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P330	Rinse mouth.

## Precautionary statement(s) Storage

Not Applicable

## Precautionary statement(s) Disposal

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

#### **SECTION 3 Composition / information on ingredients**

P501

#### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
107-21-1	>60	ethylene glycol
149-57-5	<2.6	2-ethylhexanoic acid
1310-73-2	<1	sodium hydroxide
29385-43-1	<0.6	tolyltriazole
3734-33-6	0.01	denatonium benzoate
Legend:	<ol> <li>Classified by Chernwatch; 2. Classification draw Classification drawn from C&amp;L * EU IOELVs availa</li> </ol>	n from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. ible

## **SECTION 4 First aid measures**

Description of first aid measures	
Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <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> </ul>
Skin Contact	<ul> <li>If skin or hair contact occurs:</li> <li>Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> <li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>Transport to hospital, or doctor.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> </ul>

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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Polyethylene glycols are generally poorly absorbed orally and are mostly unchanged by the kidney.

• Dermal absorption can occur across damaged skin (e.g. through burns) leading to increased osmolality, anion gap metabolic acidosis, elevated calcium, low ionised calcium, CNS depression and renal failure.

Treatment consists of supportive care.
 [Ellenhorn and Barceloux: Medical Toxicology]

#### **SECTION 5 Firefighting measures**

### Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Part Number: Version No: 2.2

## FLASHLUBE COOLANT CONCENTRATE

## 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
dvice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li><b>DO NOT</b> approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</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

Methous and material for conta	
Minor Spills	<ul> <li>Slippery when spilt.</li> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Slippery when spilt.</li> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</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>DO NOT allow clothing wet with material to stay in contact with skin</li> <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> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> </ul>
Other information	<ul> <li>Consider storage under inert gas.</li> <li>Material is hygroscopic, i.e. absorbs moisture from the air. Keep containers well sealed in storage.</li> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> </ul>

Store in a cool, dry, well-ventilated area. 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. Conditions for safe storage, including any incompatibilities DO NOT use aluminium or galvanised containers Metal can or drum Suitable container Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. Alcohols • are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents. ▶ reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen react with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, Storage incompatibility dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium should not be heated above 49 deg. C. when in contact with aluminium equipment Avoid strong acids, bases.

### 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	ethylene glycol	Ethylene glycol (particulate)	10 mg/m3		Not Available	Not Available	Not Available
Australia Exposure Standards	ethylene glycol	Ethylene glycol (vapour)	20 ppm / 52 i	mg/m3	104 mg/m3 / 40 ppm	Not Available	Not Available
Australia Exposure Standards	sodium hydroxide	Sodium hydroxide	Not Available	)	Not Available	2 mg/m3	Not Available
Ingredient	Original IDLH		Revised IDLH				
ethylene glycol	Not Available		Not Ava	vailable			
2-ethylhexanoic acid	Not Available		Not Ava	vailable			
sodium hydroxide	10 mg/m3	10 mg/m3		Not Ava	lot Available		
tolyltriazole	Not Available	Not Available		Not Available			
denatonium benzoate	Not Available	Not Available		Not Available			

#### Exposure controls

Engineering controls are used to remove a hazard or place can be highly effective in protecting workers and will typicall The basic types of engineering controls are: Process controls which involve changing the way a job activ Enclosure and/or isolation of emission source which keeps strategically "adds" and "removes" air in the work environme design of a ventilation system must match the particular pro Employers may need to use multiple types of controls to pre Local exhaust ventilation usually required. If risk of overexpu protection. Supplied-air type respirator may be required in s An approved self contained breathing apparatus (SCBA) ma Provide adequate ventilation in warehouse or closed storagy velocities which, in turn, determine the "capture velocities" of	y be independent of worker interactions to provide this hig ity or process is done to reduce the risk. a selected hazard "physically" away from the worker and v int. Ventilation can remove or dilute an air contaminant if o cess and chemical or contaminant in use. vent employee overexposure. Desure exists, wear approved respirator. Correct fit is esser pecial circumstances. Correct fit is essential to ensure ade by be required in some situations. e area. Air contaminants generated in the workplace poss	In level of protection. ventilation that designed properly. The ntial to obtain adequate equate protection. ess varying "escape"		
Type of Contaminant:		Air Speed:		
solvent, vapours, degreasing etc., evaporating from tank (	solvent, vapours, degreasing etc., evaporating from tank (in still air).			
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)			
controls direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)			
grinding, abrasive blasting, tumbling, high speed wheel ge of very high rapid air motion).	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).			
Within each range the appropriate value depends on:	Within each range the appropriate value depends on:			
Lower end of the range	Upper end of the range			
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity			
3: Intermittent, low production.	3: High production, heavy use			
4: Large hood or large air mass in motion	4: Small hood-local control only			
Simple theory shows that air velocity falls rapidly with distant decreases with the square of distance from the extraction pro- adjusted, accordingly, after reference to distance from the co- a minimum of 1-2 m/s (200-400 f/min) for extraction of solve mechanical considerations, producing performance deficits	bint (in simple cases). Therefore the air speed at the extra ontaminating source. The air velocity at the extraction fan, nts generated in a tank 2 meters distant from the extraction	ction point should be for example, should be on point. Other		

multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.</li> <li>Chemical goggles. Whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.</li> <li>Alternatively a gas mask may replace splash goggles and face shields.</li> <li>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. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Elbow length PVC gloves</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dired thoroughly. Application of a non-perfumed moisturiser is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:         <ul> <li>frequency and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dexterity</li> </ul> </li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>When only bief contact is expected, glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> <li>As defined in ASTM F-739-96 in any application, gloves are rated as:</li> <li>Excellent when breakthrough time &gt; 480 min</li> <li>Goor when breakthrough time &gt; 20 min</li> <li>Fair when breakthrough time &gt; 20 min</li> <li>Fair when breakthrough time &gt; 20 min</li> <li>Fair when breakthrough time &gt; 20 min</li> <li></li></ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

## Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer*generated selection: FLASHLUBE COOLANT CONCENTRATE

Material	CPI
NEOPRENE	A
NITRILE	A
PVC	A
BUTYL	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С

#### **Respiratory protection**

Type A-P 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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - 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 =

Part Number: Version No: 2.2

NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON/CHLOROBUTYL	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. - \* Where the glove is to be used on a short term, casual or infrequent basis, factors

such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### Ansell Glove Selection

Glove — In order of recommendation
AlphaTec® Solvex® 37-185
AlphaTec® 58-008
TouchNTuff® 83-500
MICROFLEX® 93-260
AlphaTec® 38-612
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® 58-735
AlphaTec® 79-700
AlphaTec® Solvex® 37-675

The suggested gloves for use should be confirmed with the glove supplier.

#### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Green/ blue/ red/ orange liquid with slight odour.		
Physical state	Liquid	Relative density (Water = 1)	1.1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	9(33%)
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 Chemical stability

- Product is considered stable.
- Hazardous polymerisation will not occur.

See section 7

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

Possibility of hazardous reactions

See section 7

## FLASHLUBE COOLANT CONCENTRATE

See section 7			
See section 7			
See section 5			
ormation			
ects			
There is sufficient evidence to classify this material as acut	ely toxic.		
Based on available data, the classification criteria are not n	net.		
There is sufficient evidence to classify this material as eve	damaging or irritating		
Based on available data, the classification criteria are not n			
Based on available data, the classification criteria are not n			
Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. 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. Aliphatic alcohols with more than 3-carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Secondary respiratory depression and failure, as well as low blood pressure and irregular heart rhythms, may follow.			
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. There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs.			
There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs. The material may accentuate any pre-existing dermatitis condition Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man. 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. There is some evidence to suggest that the material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.			
If applied to the eyes, this material causes severe eye dam	age.		
If applied to the eyes, this material causes severe eye damage. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Exposure to ethylene glycol over a period of several weeks may cause throat irritation, mild headache and low backache. These may worsen with increasing concentration of the substance. They may progress to a burning sensation in the throat, a burning cough, and drowsiness.			
ΤΟΧΙΟΙΤΥ	IRRITATION		
Not Available	Not Available		
ΤΟΧΙΟΙΤΥ	IRRITATION		
dermal (mouse) LD50: >3500 mg/kg <sup>[1]</sup>	Eye (Rodent - rabbit): 0.012ppm/3D		
Oral (Rat) LD50: >2000 mg/kg <sup>[2]</sup>	Eye (Rodent - rabbit): 100mg/1H - Mild		
	Eye (Rodent - rabbit): 1440mg/6H - Moderate		
	Eye (Rodent - rabbit): 1440mg/6H - Moderate Eye (Rodent - rabbit): 500mg/24H - Mild		
	Eye (Rodent - rabbit): 500mg/24H - Mild		
	Eye (Rodent - rabbit): 500mg/24H - Mild Eye (Rodent - rat): 0.012%/3D		
	Eye (Rodent - rabbit): 500mg/24H - Mild Eye (Rodent - rat): 0.012%/3D Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
τοχιριτγ	Eye (Rodent - rabbit): 500mg/24H - Mild         Eye (Rodent - rat): 0.012%/3D         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (Rodent - rabbit): 555mg - Mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
TOXICITY	Eye (Rodent - rabbit): 500mg/24H - Mild         Eye (Rodent - rat): 0.012%/3D         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (Rodent - rabbit): 555mg - Mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION		
TOXICITY           Dermal (rabbit) LD50: 1260 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 2043 mg/kg <sup>[2]</sup>	Eye (Rodent - rabbit): 500mg/24H - Mild         Eye (Rodent - rat): 0.012%/3D         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (Rodent - rabbit): 555mg - Mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
	See section 7 See section 5 See section 5 Sormation Sects There is sufficient evidence to classify this material as acut Based on available data, the classification criteria are not in There is sufficient evidence to classify this material as eye Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Based on available data, the classification criteria are not in Chere is strong evidence to suggest that this material act of The material can cause respiratory irritation in some persoo Inhalation of vapours may cause drowsiness and dizziness lack of co-ordination, and vertigo. Aliphatic alcohols with more than 3-carbons cause headacl coma, seizures and behavioural changes. Secondary respi rhythms, may follow. Accidental ingestion of the material may be harmful; anima produce serious damage to the health of the individual. There is strong evidence to suggest that this material can cause there is strong evidence to suggest that this material can cause there is strong evidence to suggest that this material can cause there is strong evidence to suggest that this material can cause there is strong evidence to suggest that this material can cause there is strong evidence to suggest that this material can cause there is strong evidence to suggest that this material can cause there is strong evidence to suggest that the material may carditer a delay of some time. Repeated exposure can cause there is some evidence to suggest that the material may c		

Skin (Rodent - rabbit): 10mg/24H Skin (Rodent - rabbit): 450mg - Mild

		Skin: adverse effect observed (irritating) <sup>[1]</sup>
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 1350 mg/kg <sup>[2]</sup>	Eye (Primate - monkey): 1%/24H - Severe
	Oral (Rabbit) LD50; 325 mg/kg <sup>[1]</sup>	Eye (Rodent - rabbit): 1% - Severe
		Eye (Rodent - rabbit): 100mg
		Eye (Rodent - rabbit): 1mg/24H - Severe
		Eye (Rodent - rabbit): 1mg/30S - Severe
		Eye (Rodent - rabbit): 400ug - Mild
sodium hydroxide		Eye (Rodent - rabbit): 50ug/24H - Severe
		Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (Human): 0.15%/96H
		Skin (Human): 2%/24H - Mild
		Skin (Human): 2.50%/24H
		Skin (Rodent - rabbit): 500mg/24H - Severe
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (Rodent - rabbit): 10mg - Mild
tolyltriazole	Inhalation (Rat) LC50: >0.433 mg/L4h <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
	Oral (Rat) LD50: 675 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (initiality)
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
denatonium benzoate		
	Inhalation (Rat) LC50: 0.2 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (Rabbit) LD50; 508 mg/kg <sup>[2]</sup>	
ETHYLENE GLYCOL	specified data extracted from RTECS - Register of Toxic E	y Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat
	through the airways; absorption through skin is apparently initially metabolized by alcohol dehydrogenase to form glyd breakdown products are oxidized to glyoxylate, which may glycine and formic acid can generate carbon dioxide, which carbon dioxide, ethylene glycol is eliminated in the urine as within a few hours. Respiratory effects: Respiratory system involvement occur include hyperventilation, shallow rapid breathing, and gene in the lungs. Respiratory system involvement appears to be there may be other changes compatible with adult respirate ARDS, or aspiration of stomach contents. Symptoms relate however, major symptoms such as swelling of the lung and only in extreme poisoning. Cardiovascular effects: Cardiovascular system involvement the second phase of ethylene glycol poisoning by swallowi involving the heart include increased heart rate, heart enla	hout the gastrointestinal tract. Limited information suggests that it is also absorbed slow. Following absorption, it is distributed throughout the body. In humans, it is coaldehyde, which is rapidly converted to glycolic acid and glycal. These be further metabolized to formic acid, oxalic acid, and glycole. Breakdown of both is one of the major elimination products of ethylene glycol. In addition to exhaled is both the parent compound and glycolic acid. Elimination is rapid and occurs is 12-24 hours after swallowing sufficient amounts of ethylene glycol. Symptoms bralized swelling of the lungs with calcium oxalate deposits occasionally appearing e dose-dependent and occurs at the same time as cardiovascular changes. Later, ory distress syndrome (ARDS). Swelling of the lung can be a result of heart failure, ed to acidosis such as fast or excessive breathing are frequently observed; t inflammation of the bronchi and lungs are relatively rare, and are usually seen t in humans occurs at the same time as respiratory system involvement, during ng, which is 12-24 hours after acute exposure. The symptoms of poisoning rgement and ventricular gallop. There may also be high or low blood pressure, inflammation of the heart muscle has been observed at autopsy. Cardiovascular lawing blybar dones of a thyloge alwal.

acute ethylene glycol poisoning. Reproductive effects: Animal testing showed that ethylene glycol may affect fertility, survival of fetuses and the male reproductive organs. Part Number:

#### FLASHLUBE COOLANT CONCENTRATE Version No: 2.2 Effects on development: Animal studies indicate that birth defects may occur after exposure in pregnancy; there may also be reduction in foetal weight. Cancer: No studies are known regarding cancer effects in humans or animal, after skin exposure to ethylene glycol. Genetic toxicity: No human studies available, but animal testing results are consistently negative. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the 2-ETHYLHEXANOIC ACID production of vesicles, scaling and thickening of the skin. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the SODIUM HYDROXIDE production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. \*\* Benzotriazoles Coalition Synthetic Organic Chemical Manufacturers Association December, 2001 For benzotriazoles There are several indications that the effects of phenolic benzotriazoles described in the literature might be caused by endocrine disruption, e.g. reduced concentrations of testosterone, higher concentrations of CYP 450, or higher activity of ethoxyresorufin-O-deethylase (ERODactivity). As in these cases there are also indications for toxic effects on the liver reported, the effects might actually be only secondary effects. With the present knowledge it is not possible to attribute them unambiguously as endocrine adverse effects of an equivalent level of concern. Several benzotriazole UV stabilisers showed significant human aryl hydrocarbon receptor (AhR) ligand activity. The AhR has roles in regulating immunity, stem cell maintenance, and cellular differentiation A study indicated that certain benzotriazole UV stabilisers have the potential to accumulate and exert potent physiological effects in humans, analogous to polycyclic aromatic hydrocarbons and dioxins, which are known stable and toxic ligands. The polycyclic aromatic hydrocarbon the polycyclic aromatic hydrocarbon, benzo[a]pyrene (BaP), a ligand for AhR, induces its own metabolism and bioactivation to a toxic metabolites. Benzotriazole is the core structure present within the phenolic benzotriazole class. In vitro metabolism with rat liver microsomes yielded formation of 5- and 4-hydroxybenzotriazole (1.6 and 0.32% of the amount added, respectively). Overall metabolism was low (<5% of the total amount added) Oral acute studies in rats and mice yielded LD50 values that ranged from 560 to 909 mg/kg. Intraperitoneal LD50 values in mice and rats ranged from 400-1000 and 500-900 mg/kg, respectively. A mouse intravenous LD50 of 238 mg/kg was identified. Dermal LD50 values were =1000 mg/kg in rats and rabbits, and inhalation LC50 values in rats were 1.5 mg/L and 1.91 mg/L/3 hours). Subchronic and short-term studies showed that oral administration to mice produced minimal effects on body weight while dose-dependent decreases in body weight were observed in rats. Endocrine effects, normocytic anemia, and leukopenia were noted in rats dosed for 26 weeks. The TDLo was 109 mg/kg. No effects on deaths and no clinical symptoms were noted in mice or rats orally administered (in food) benzotriazole =78 weeks. Additionally, no dose-related effects on reproductive organs were noted in either sex. Neoplastic liver nodules were observed in male Fischer rats fed 12,100 ppm benzotriazole for 78 weeks. However, historic laboratory controls incidences varied from 0 to 11% so the treatment-related effects could not be determined. Brain tumors occurred in three males and one female rat. Incidence of endometrial TOLYLTRIAZOLE stromal polyps was increased significantly in female rats fed 6700 ppm for 78 weeks (22%), but not in female rats fed 12,100 ppm (16%). Significant increase in alveolar/bronchiolar carcinomas (18%) was observed female B6C3F1 fed 11,700 ppm benzotriazole for 104 weeks. Comparatively, a similar increase was not observed in female mice fed 23,500 ppm benzotriazole for the same period of time (6% increase). Historical laboratory control incidences varied from 0 to 7%. Genotoxicity studies indicate that the compound was not mutagenic to S. typhimurium strains TA97, TA98, or TA100 in the presence or absence of S9, or Chinese hamster ovary cells. Benzotriazole was also not mutagenic to S. typhimurium strain TA1535 in the absence of S9, but was mutagenic in the presence of S9. Conflicting results were obtained for effects in S. typhimurium strains TA1537 and TA1538 and E. coli WP2 uvrA. It did not produce DNA damage in E. coli PQ37. In Chinese hamster ovary cells, benzotriazole induced chromosomal aberrations in the presence of S9 and sister chromatid exchange in the absence of S9. Benzotriazole was not genotoxic in the mouse micronucleus assay at 800 mg/kg. Benzotriazole was identified as a non-sensitizer in the guinea pig maximization test. Benzotriazole was identified as irritating to rabbit eyes and minimally irritating to rabbit and guinea pig skin For phenolic benzotriazoles Overall, oral exposure (either through gavage or in feed) of the tested chemicals to rats led to liver effects. Increased absolute and/or relative liver weights were observed in several studies. Body weight and body weight gain changes were observed after administration of several test substances. Histopathological changes (e.g., foci, hypertrophy, and cytoplasmic vacuolization) and altered liver enzyme content and activities were also noted after treatment with different phenolic benzotriazoles. Haematological effects (e.g., altered white and red blood cell counts, altered albumin levels, and packed cell volume) were observed. For those studies that calculated no observed adverse effect levels (NOAELs), the values ranged from <0.5 to ~5685 mg/kg/day Reproductive and teratology effects: The chemicals tested produced a variety of effects. Some chemicals were shown to affect reproductive organ weights, but no direct studies in reproduction and development were located. Genotoxicity None of the tested compounds were identified as mutagenic in vitro in the absence or presence of a metabolic system (S9) or in vivo Chemical Information Review Document for Phenolic Benzotriazoles: Supporting Nomination for Toxicological Evaluation by the National Toxicology Program October 2011 https://ntp.niehs.nih.gov/ntp/noms/support docs/phenolicbenzotriazoles cird oct2011 508.pdf Somnolence, tremor, ataxia recorded Most undiluted cationic surfactants satisfy the criteria for classification as Harmful (Xn) with R22 and as Irritant (Xi) for skin and eyes with R38 and R41. DENATONIUM BENZOATE For quaternary ammonium compounds (QACs): Quaternary ammonium compounds are synthetically made surfactants. Studies show that its solubility, toxicity and irritation depend on chain length and bond type while effect on histamine depends on concentration. QACs may cause muscle paralysis with no brain involvement. There is a significant association between the development of asthma symptoms and the use of QACs as disinfectant. 2-ETHYLHEXANOIC ACID & The material may produce severe irritation to the eve causing pronounced inflammation. Repeated or prolonged exposure to irritants may SODIUM HYDROXIDE produce conjunctivitis Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset 2-ETHYLHEXANOIC ACID & of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS SODIUM HYDROXIDE & include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, DENATONIUM BENZOATE and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. × Acute Toxicity Carcinogenicity × × Skin Irritation/Corrosion Reproductivity Serious Eye ~ × STOT - Single Exposure Damage/Irritation **Respiratory or Skin** × ~ STOT - Repeated Exposure sensitisation Mutagenicity × Aspiration Hazard ×

🗙 – Data either not available or does not fill the criteria for classification Legend: Data available to make classification

SECTION 12 Ecological information

Version No: 2.2

## FLASHLUBE COOLANT CONCENTRATE

	Endpoint	Test Duration (hr)	Species	Value	Source
FLASHLUBE COOLANT CONCENTRATE	Not Available	Not Available	Not Available	Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	96h	Algae or other aquatic plants	6500- 13000mg/l	1
ethylene glycol	EC50(ECx)	Not Available	Algae or other aquatic plants	6500- 7500mg/l	1
	EC50	48h	Crustacea	>100mg/l	2
	LC50	96h	Fish	8050mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	96h	Algae or other aquatic plants	41mg/l	1
	EC50	72h	Algae or other aquatic plants	49.3mg/l	2
2-ethylhexanoic acid	NOEC(ECx)	24h	Fish	14.424mg/L	4
	EC50	48h	Crustacea	85.4mg/l	1
	LC50	96h	Fish	>100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50(ECx)	48h	Crustacea	34.59- 47.13mg/l	4
sodium hydroxide	EC50	48h	Crustacea	34.59- 47.13mg/l	4
	LC50	96h	Fish	144- 267mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	29mg/l	2
tolyltriazole	EC50(ECx)	48h	Crustacea	35.4mg/l	Not Availab
	EC50	48h	Crustacea	35.4mg/l	Not Availab
	LC50	96h	Fish	21.4mg/l	Not Availab
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
denatonium benzoate	NOEC(ECx)	48h	Crustacea	50mg/l	2
	EC50	48h	Crustacea	>500mg/l	2
		96h	Fish	>100mg/l	2

### DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol LOW (Half-life = 24 days)		LOW (Half-life = 3.46 days)
2-ethylhexanoic acid	LOW	LOW
sodium hydroxide	LOW	LOW

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
ethylene glycol LOW (BCF = 200)	
2-ethylhexanoic acid	LOW (LogKOW = 2.64)
sodium hydroxide	LOW (LogKOW = -3.88)
denatonium benzoate	LOW (LogKOW = 0)

### Mobility in soil

Ingredient	Mobility
ethylene glycol	HIGH (Log KOC = 1)
2-ethylhexanoic acid	LOW (Log KOC = 24.06)
sodium hydroxide	LOW (Log KOC = 14.3)

## Issue Date: 16/11/2023 Print Date: 10/02/2025

## FLASHLUBE COOLANT CONCENTRATE

Waste	treatment	methods
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Product / Packaging disposal

#### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

## Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### 14.7. Maritime transport in bulk according to IMO instruments

## 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
ethylene glycol	Not Available
2-ethylhexanoic acid	Not Available
sodium hydroxide	Not Available
tolyltriazole	Not Available
denatonium benzoate	Not Available

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

Product name	Ship Type
ethylene glycol	Not Available
2-ethylhexanoic acid	Not Available
sodium hydroxide	Not Available
tolyltriazole	Not Available
denatonium benzoate	Not Available

#### **SECTION 15 Regulatory information**

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

#### ethylene glycol 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 10 / Appendix C
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Schedule 5
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Schedule 6
- Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

## 2-ethylhexanoic acid 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 6 Australian Inventory of Industrial Chemicals (AIIC)

## sodium hydroxide 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 10 / Appendix C

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

### tolyltriazole is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

## denatonium benzoate is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 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 (ethylene glycol; 2-ethylhexanoic acid; sodium hydroxide; tolyltriazole; denatonium benzoate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI Yes	
New Zealand - NZIoC Yes	
Philippines - PICCS Yes	
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

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

Revision Date	16/11/2023
Initial Date	16/11/2023

#### SDS Version Summary

v	ersion	Date of Update	Sections Updated	
2	.2	29/01/2025	Identification of the substance / mixture and of the company / undertaking - Synonyms	

#### Other information

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

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit.
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
   LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- 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

Part Number:

Version No: 2.2

## FLASHLUBE COOLANT CONCENTRATE

- 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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