

Stihl Pty Ltd.

BWES: 7926-09

Version No: 2.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 03/12/2024 Print Date: 06/12/2024 L.GHS.AUS/NZ.EN.E

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

Product Identifier

Product name	STIHL CC 100
Chemical Name	Not Applicable
Synonyms	Product Code: 0782 516 8500 A
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	Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Stihl Pty Ltd.
Address	5 Kingston Park Court, Knoxfield, Victoria, 3180, Australia 9 Bishop Browne Place, East Tamaki, Auckland, 2013 New Zealand
Telephone	AU: +61 3 9215 6666 NZ: +64 9262 4000
Fax	Not Available
Website	Not Available
Email	enquiries@stihl.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone number(s)	131 126 (AU)
Other emergency telephone number(s)	0800 764 766 (NZ)

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable
Classification ^[1]	Serious Eye Damage/Eye Irritation Category 2A
Legend:	1. Classified by BWES; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	
H319	Causes serious eye irritation.
Precautionary statement(s) Prevention	
P280	Wear protective gloves, protective clothing, eye protection and face protection.

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.		
recautionary statement(s) Stor	rage		
recautionary statement(s) Disp ot Applicable	bosal		
Considered a Hazardous Su regulated for transport of Da	bstance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not angerous Goods.		
Classification ^[1]	Serious Eye Damage/Eye Irritation Category 2		
Legend:	1. Classified by BWES; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		
Determined by BWES using	6.4A		
GHS/HSNO criteria			
abel elements Hazard pictogram(s)			
abel elements	Warning		
abel elements Hazard pictogram(s) Signal word	Warning		
abel elements Hazard pictogram(s)	Warning Causes serious eye irritation.		
abel elements Hazard pictogram(s) Signal word lazard statement(s) H319	Causes serious eye irritation.		
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abel elements Hazard pictogram(s) Signal word Hazard statement(s) H319 Precautionary statement(s) Prev	Causes serious eye irritation.		
abel elements Hazard pictogram(s) Signal word lazard statement(s) H319 Precautionary statement(s) Prev P280	Causes serious eye irritation. vention Wear protective gloves, protective clothing, eye protection and face protection. Wash all exposed external body areas thoroughly after handling.		
abel elements Hazard pictogram(s) Signal word azard statement(s) H319 recautionary statement(s) Prev P280 P264	Causes serious eye irritation. vention Wear protective gloves, protective clothing, eye protection and face protection. Wash all exposed external body areas thoroughly after handling.		

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
56-81-5	1-10	gl <u>ycerol</u>
68937-54-2	1-10	dimethylsiloxane. 3-hydroxypropylmethyl, ethoxylated
188627-10-3	1-10	dimethyl siloxane, dimethylalkoxy-terminated
69011-36-5	<1	tridecanol, branched, ethoxylated
122-99-6	<1	ethylene glycol phenyl ether
Not Available	balance	Ingredients determined not to be hazardous
Legend:	 Classified by BWES; 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

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear.

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	 Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

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

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
lvice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive.

Combustion products include: carbon dioxide (CO2) Fire/Explosion Hazard nitrogen oxides (NOx) silicon dioxide (SiO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.

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	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. 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.

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Avoid strong acids, bases. Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

INGREDIENT DATA							
Source	Ingredient	Material name	TWA	STEL	Peak		Notes
Australia Exposure Standards	glycerol	Glycerin mist	10 mg/m3	Not Available	Not Availabl	e	 (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
New Zealand Workplace Exposure Standards (WES)	glycerol	Glycerin (mist)	10 mg/m3	Not Available	Not Available	e	Not Available
Ingredient	Original IDL	H				Rev	vised IDLH
glycerol	Not Available			Not	Not Available		
dimethylsiloxane, 3- hydroxypropylmethyl, ethoxylated	Not Available		Not	Available			
dimethyl siloxane, dimethylalkoxy-terminated	Not Available	Not Available			Not	Available	
tridecanol, branched, ethoxylated	Not Available	Not Available			Not Available		
ethylene glycol phenyl ether	Not Available	Not Available			Not	Available	
Occupational Exposure Bandin	g						
Ingredient	Occupation	al Exposure Ban	d Rating			00	ccupational Exposure Band Limit

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
dimethylsiloxane, 3- hydroxypropylmethyl, ethoxylated	E	≤ 0.1 ppm	
dimethyl siloxane, dimethylalkoxy-terminated	E	≤ 0.1 ppm	
tridecanol, branched, ethoxylated	E ≤ 0.1 ppm		
ethylene glycol phenyl ether	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.		

MATERIAL DATA

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.

Individual protection measures, such as personal

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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.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:	
solvent, vapours, degreasing etc., evaporating from tank (i	0.25-0.5 m/s (50- 100 f/min)	
aerosols, fumes from pouring operations, intermittent conta spray drift, plating acid fumes, pickling (released at low vel	0.5-1 m/s (100- 200 f/min.)	
direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	1-2.5 m/s (200- 500 f/min.)	
grinding, abrasive blasting, tumbling, high speed wheel ge of very high rapid air motion).	2.5-10 m/s (500- 2000 f/min.)	
Nithin 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	

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 distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.



protective equipment	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. 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].
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety forlowear or safety gumboots, e.g. Rubber 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. 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. 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 dhied thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: if requency and durability of glove type is dependent on usage. Important factors in the selection of gloves include: if we elements and of glove the is dependent on usage. Important factors in the selection of gloves include:

	Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

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:

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Material	CPI
NATURAL RUBBER	В
NATURAL+NEOPRENE	В
NITRILE	В
BUTYL	С
BUTYL/NEOPRENE	С
NAT+NEOPR+NITRILE	С
NEOPRENE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVC	С
SARANEX-23	С
TEFLON	С

* CPI - BWES 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.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Respiratory protection

Type AB-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	AB-AUS P2	-	AB-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AB-AUS/Class 1 P2	-
up to 100 x ES	-	AB-2 P2	AB-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 = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 deqC)

- 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

Appearance	Liquid.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Filysical state	Liquid	,	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	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%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

	-		
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.		
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.		
	τοχιζιτγ	IRRITATION	
STIHL CC 100	Not Available	Not Available	
	тохісіту	IRRITATION	
	Dermal (Guinea Pig) LD50: 58500 mg/kg ^[1]	Eye (Rodent - rabbit): 500mg/24H - Mild	
glycerol	Inhalation (Rat) LC50: >5.85 mg/L4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	Oral (Mouse) LD50; 4090 mg/kg ^[2]	Skin (Rodent - rabbit): 500mg/24H - Mild	
		Skin: no adverse effect observed (not irritating) ^[1]	
dimethylsiloxane, 3-	тохісіту	IRRITATION	
hydroxypropylmethyl, ethoxylated	Not Available	Not Available	
dimethyl siloxane,	ΤΟΧΙCITY	IRRITATION	
dimethylalkoxy-terminated	Not Available Not Available		
	тохісіту	IRRITATION	
tridecanol, branched,	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
ethoxylated	Oral (Rat) LD50: 1080 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (Rodent - rabbit): 250ug/24H - Severe	
	Oral (Rat) LD50: 1260 mg/kg ^[2]	Eye (Rodent - rabbit): 6mg - Moderate	
ethylene glycol phenyl ether		Eye: adverse effect observed (irreversible damage) ^[1]	
ethylene grycol phenyl ether		Eye: adverse effect observed (irritating) ^[1]	
		Skin (Rodent - rabbit): 500mg/24H - Mild	
		Skin: adverse effect observed (irritating) ^[1]	
		Skin: no adverse effect observed (not irritating) ^[1]	

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise

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	specified data extracted from RTECS - Register of Toxic Effect of chemical Substances
GLYCEROL	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 onse of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include the absence of previous airways disease in a non-atopic individual, with sudden onse of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritating on the absence of neversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, 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 bronchiti is a disorder that occurs as a result of exposure to ale to non-atterized by difficulty breathing, cough and mucus production. For glycerol: Acute toxicity: Glycerol is of a low order of acute oral and dermal toxicity with LD50 values in excess of 4000 mg/kg bw. At very high dose levels, the signs of toxicity include tremor and hyperaemia of the gastro-intestinal -tract. Skin and eye irritation studies indicate that glycerol has low potential to irritate the skin and the eye. The available human and animal data, together with the very widespread potential for exposure and the absence of case reports of sensitisation, indicate that glycerol is not a skin sensitier. Repeat dose toxicity: Repeated oral exposure to glycerol does not induce adverse effects other than local irritation of the gastro-intestinal tract. The overall NOEL after prolonged treatment with glycerol
DIMETHYLSILOXANE, 3- HYDROXYPROPYLMETHYL, ETHOXYLATED	No significant acute toxicological data identified in literature search. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
TRIDECANOL, BRANCHED, ETHOXYLATED	 ¹ (PASF Canada) ¹ Human beings have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents, and other cleaning products. Exposure to these chemicals can occur through ingestion, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that to tunes or these compounds is of low concern in terms of oral and dermal toxicity. ¹ Clinical animal studies indicate these chemicals may produce gastronicestinal irritation such as ulcerations of the stomach, pilo-erection, diarrhea, and tehrangy. Similar is server irritation of the skin or eye was generated when unditude alcohol ethoxylates were applied to the skin and eyes of nabits and rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 2007). No information was available on levels at which these effects might occur, though toxicity is thought were than that of nonryphenol ethoxylates. Polyethers, for example, ethoxylated surfactants and polyethylene glycols, are highly susceptible towards air oxidation as the ether oxygens will stabilize intermediatry trafficals involved. Investigations of a chemically well-defined alcohol (pertuathylate glycol mon-hodoc) ether) pentoxichapetasan-109 was stable enolging to be isolated. If was found to be a strong sensitizer is LLNA (icf. Hyndroperoxyl. 54, 91, 21, 59, 50, 21, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50

proteins are not deactivated by nonionic surfactants, and proteins with poor solubility are not solubilized by nonionic surfactants. A substantial amount of toxicological data and information in vivo and in vitro demonstrates that there is no evidence for alcohol ethoxylates

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	(AEs) being genotoxic, mutagenic or carcinogenic. N available toxicity studies revealed NOAELs in excess mg/kg bw/day. This value was subsequently conside were restricted to changes in organ weights with no adaptive response to metabolism rather than a toxic studies of 90-day or 2 years of duration in rats. A cor account an oral absorption value of 75%) results in a assessment and the assigned systemic NOAEL, this uncertainty and variability of the hazard database an AEs are not contact sensitisers. Neat AE are irritatin concentrations. Local dermal effects due to direct or concern as AEs are not expected to be irritating to th concern given the very low levels of airborne AE gen In summary, the human health risk assessment has and does not cause concern with regard to consume	s of 100 mg/kg bw/d but the lowest N pred as a conservative, representative histopathological organ changes with effect). It is noteworthy that there was mparison of the aggregate consumer a Margin of Exposure of 5,800. Takin s margin of exposure is considered m and inter and intra-species extrapolatic g to eyes and skin. The irritation pote indirect skin contact in certain use so the skin at in-use concentrations. Pote thereated as a consequence of spray cl demonstrated that the use of AE in h	OAEL for an individual AE was established to be 50 a value in the risk assessment of AE. The effects the exception of liver hypertrophy (indicative of an s practically no difference in the NOAEL in oral exposure and the systemic NOAEL (taking into g into account the conservatism in the exposure ore than adequate to account for the inherent ins. Initial of aqueous solutions of AEs depends on senarios where the products are diluted are not of ential irritation of the respiratory tract is not a eaner aerosols or laundry powder detergent dust.
ETHYLENE GLYCOL PHENYL ETHER		re a diverse group of chemical structu ochronic dermal and oral toxicity. mers, AAA fragrance ingredients are extent phenethyl and 2-phenoxyethy indicate that AAA fragrance ingredie nsitization is low. e far in excess of current human expo -year chronic testing of benzyl alcoh e rats at the high dose. There was no itro mammalian cell assays. All in viv nt a safety concern at current levels of	ures with similar metabolic and toxicity profiles. non-irritating to the skin. I AAA alcohols, human sensitization studies, nts generally have no or low sensitization potential. posure levels. ol or a-methylbenzyl alcohol; the latter did induce to little genotoxicity, mutagenicity, or clastogenicity ro micronucleus assays were negative.
DIMETHYLSILOXANE, 3- HYDROXYPROPYLMETHYL, ETHOXYLATED & DIMETHYL SILOXANE, DIMETHYLALKOXY- TERMINATED	It is concluded that these materials would not present a safety concern at current levels of use as fragrance ingredients The Research Institute for Fragrance Materials (RIFM) Expert Panel For siloxanes: Effects which based on the reviewed literature do not seem to be problematic are acute toxicity, irritant effects, sensitization and genotoxicity. Some studies indicate that some of the siloxanes may have endocrine disrupting properties, and reproductive effects have caused concern about the possible effects of the siloxanes on humans and the environment. Only few siloxanes are described in the literature with regard to health effects, and it is therefore not possible to make broad conclusions and comparisons of the toxicity related to short-chained linear and cyclic siloxanes based on the present evaluation. Data are primarily found on the cyclic siloxanes D4 (octamethylcyclopertasiloxane) and D5 (decamethylcyclopertasiloxane) and the short-linear HMDS (hexamethydisiloxane). These three siloxanes have a relatively low order of acute toxicity by oral, dermal and inhalatory routes and do not require classification for this effect. They are not found to be irritating to skin or eyes and are also not found sensitizing by skin contact. Data on respiratory sensitization have not been identified. Subacute and subchronic toxicity studies show that the liver is the main target organ for D4 which also induces liver cell enzymes. This enzyme induction contributes to the elimination of the substance from the tissues. Primary target organ for D5 exposure by inhalation is the lung. D5 has an enzyme induction profile similar to that of D4. Subacute and subchronic inhalation of HMDS affect in particular the lungs and kidneys in rats. None of the investigated siloxanes show any signs of genotoxic effects <i>in vitro or in vivo</i> . Preliminary results indicate that D5 has a potential agonist (enhances the effect of the estrogen). Lits not uncommon for compounds that are weakly cestrogenic to also have antioestro		
DIMETHYLSILOXANE, 3- HYDROXYPROPYLMETHYL, ETHOXYLATED & ETHYLENE GLYCOL PHENYL ETHER	mechanism by which very polar metabolites may be The material may cause skin irritation after prolonge dermatitis is often characterised by skin redness (en spongy layer (spongiosis) and intracellular oedema	d or repeated exposure and may pro ythema) and swelling epidermis. Hist	duce a contact dermatitis (nonallergic). This form of
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Skin Irritation/Corrosion Serious Eye	×		
Damage/Irritation		STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagonicity	I X	Aspiration Hazard	I X

Aspiration Hazard

×

Mutagenicity

×

Legend:

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

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
STIHL CC 100	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
glycerol	EC0(ECx)	24h	Crustacea	>500mg/l	1
	LC50	96h	Fish	>11mg/L	2
dimethylsiloxane, 3-	Endpoint	Test Duration (hr)	Species	Value	Source
hydroxypropylmethyl, ethoxylated	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
dimethyl siloxane, dimethylalkoxy-terminated	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- 10mg/l	Not Available
tridecanol, branched, ethoxylated	EC50(ECx)	48h	Crustacea	1- 10mg/l	Not Available
emoxylated	LC50	96h	Fish	2.3mg/l	Not Available
	EC50	48h	Crustacea	1- 10mg/l	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
ethylene glycol phenyl ether	NOEC(ECx)	24h	Fish	5mg/l	2
	EC50	48h	Crustacea	460mg/l	2
	LC50	96h	Fish	154mg/l	2

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
glycerol	LOW	LOW
ethylene glycol phenyl ether	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
glycerol	LOW (LogKOW = -1.76)
dimethylsiloxane, 3- hydroxypropylmethyl, ethoxylated	HIGH (LogKOW = 4.85)
tridecanol, branched, ethoxylated	LOW (LogKOW = 3.59)
ethylene glycol phenyl ether	LOW (LogKOW = 1.16)

Mobility in soil

Ingredient	Mobility
glycerol	HIGH (Log KOC = 1)
ethylene glycol phenyl ether	LOW (Log KOC = 12.12)

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. Recycle wherever possible or consult manufacturer for recycling options.

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Consult State Land Waste Authority for disposal.
 Bury or incinerate residue at an approved site.
 Recycle containers if possible, or dispose of in an authorised landfill.

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.

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

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

Land transport (UN): 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

14.7.1. 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
glycerol	Not Available
dimethylsiloxane, 3- hydroxypropylmethyl, ethoxylated	Not Available
dimethyl siloxane, dimethylalkoxy-terminated	Not Available
tridecanol, branched, ethoxylated	Not Available
ethylene glycol phenyl ether	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
glycerol	Not Available
dimethylsiloxane, 3- hydroxypropylmethyl, ethoxylated	Not Available
dimethyl siloxane, dimethylalkoxy-terminated	Not Available
tridecanol, branched, ethoxylated	Not Available
ethylene glycol phenyl ether	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
HSR002521	Animal Nutritional and Animal Care Products Group Standard 2020
HSR002530	Cleaning Products Subsidiary Hazard Group Standard 2020
HSR002535	Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020
HSR002503	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020
HSR002606	Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020
HSR002612	Metal Industry Products Subsidiary Hazard Group Standard 2020
HSR002624	N.O.S. Subsidiary Hazard Group Standard 2020
HSR002638	Photographic Chemicals Subsidiary Hazard Group Standard 2020
HSR002644	Polymers Subsidiary Hazard Group Standard 2020
HSR002647	Reagent Kits Group Standard 2020
HSR002648	Refining Catalysts Group Standard 2020

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HSR Number	Crown Standard	
	Group Standard	
HSR002653	Solvents Subsidiary Hazard Group Standard 2020	
HSR002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020	
HSR002684	Water Treatment Chemicals Subsidiary Hazard Group Standard 2020	
HSR100425	Pharmaceutical Active Ingredients Group Standard 2020	
HSR002600	Leather and Textile Products Subsidiary Hazard Group Standard 2020	
HSR002605	Lubricants Low Hazard Group Standard 2020	
HSR002544	Construction Products Subsidiary Hazard Group Standard 2020	
HSR002549	Corrosion Inhibitors Subsidiary Hazard Group Standard 2020	
HSR002552	Cosmetic Products Group Standard 2020	
HSR002558	Dental Products Subsidiary Hazard Group Standard 2020	
HSR002565	Embalming Products Subsidiary Hazard Group Standard 2020	
HSR002571	Fertilisers Subsidiary Hazard Group Standard 2020	
HSR002573	Fire Fighting Chemicals Group Standard 2021	
HSR002578	Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020	
HSR002585	Fuel Additives Subsidiary Hazard Group Standard 2020	
HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2020	
HSR100580	Tattoo and Permanent Makeup Substances Group Standard 2020	
HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020	
HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020	
HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020	
HSR100592	Agricultural Compounds Special Circumstances Group Standard 2020	
HSR100756	Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020	
Please refer to Section 8 or	of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.	
glycerol is found on the fo		
Australian Inventory of Indu New Zealand Inventory of 0		
New Zealand Workplace E		
dimethylsiloxane, 3-hydro	oxypropylmethyl, ethoxylated is found on the following regulatory lists	
	Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C	
	Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4	
Australian Inventory of Indu		
New Zealand Inventory of (Chemicals (NZIOC)	
dimethyl siloxane, dimeth	hylalkoxy-terminated is found on the following regulatory lists	
Australian Inventory of Indu		
New Zealand Inventory of C New Zealand L and Transpo	Chemicals (NZIoC) port Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods	
	noxylated is found on the following regulatory lists	
Australia Hazardous Chem Australian Inventory of Indu	nical Information System (HCIS) - Hazardous Chemicals	
,	Substances and New Organisms (HSNO) Act - Classification of Chemicals	
	Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
New Zealand Inventory of C	Chemicals (NZIoC) port Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods	
THEW ZEARATH LATHE TRANSPO	on raile. Dangerous Guous 2000 - Generalie i Quantity innits für Uahgerous guous	

ethylene glycol phenyl ether 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) 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)

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

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

Hazard Class 0	Quantities
Not Applicable	Not Applicable

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

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Maximum quantities of certain hazardous substances permitted on passenger service vehicles

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

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non- Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (glycerol; dimethylsiloxane, 3-hydroxypropylmethyl, ethoxylated; dimethyl siloxane, dimethylalkoxy-terminated; tridecanol, branched, ethoxylated; ethylene glycol phenyl ether)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	No (dimethylsiloxane, 3-hydroxypropylmethyl, ethoxylated; dimethyl siloxane, dimethylalkoxy-terminated)		
Japan - ENCS	No (dimethylsiloxane, 3-hydroxypropylmethyl, ethoxylated; dimethyl siloxane, dimethylalkoxy-terminated)		
Korea - KECI	Yes		
New Zealand - NZloC	Yes		
Philippines - PICCS	No (dimethyl siloxane, dimethylalkoxy-terminated)		
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (dimethylsiloxane, 3-hydroxypropylmethyl, ethoxylated; dimethyl siloxane, dimethylalkoxy-terminated; tridecanol, branched, ethoxylated)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (dimethylsiloxane, 3-hydroxypropylmethyl, ethoxylated; dimethyl siloxane, dimethylalkoxy-terminated)		
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	03/12/2024
Initial Date	03/12/2024

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the BWES 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