Sterile Care

Chemwatch: 7632-98 Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Sterile-Care Fresh Air Sponge
Synonyms	Not Available
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses To neutralise odours in the air.

Details of the supplier of the safety data sheet

Registered company name	Sterile Care
Address	Unit 17, 6 Abbot Rd Seven Hills NSW 2147 Australia
Telephone	+61 2 9674 8849
Fax	+61 2 9674 8843
Website	Not Available
Email	sterile_care@optusnet.com.au

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+131126
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable	
Classification	Not Applicable	
Label elements		
GHS label elements	Not Applicable	
SIGNAL WORD	NOT APPLICABLE	
Hazard statement(s)		
Not Applicable		
Precautionary statement(s)	Prevention	
Not Applicable		
Precautionary statement(s) Response		
Not Applicable		
Precautionary statement(s) Storage		
Not Applicable		
Precautionary statement(s) Disposal		
Not Applicable		
SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS		

Substances

See section below for composition of Mixtures

Chemwatch Hazard Alert Code: 0

Issue Date: 13/01/2023 Print Date: 13/01/2023

L.GHS.AUS.EN

Mixtures

CAS No	%[weight]	Name
7647-14-5	<1	sodium chloride
497-19-8	<1	sodium carbonate
56-81-5	<10	glycerol
9002-92-0	<10	lauryl alcohol, ethoxylated

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: 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	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.			
Advice for firefighters				
Fire Fighting	Use water delivered as a fine spray to control fire and cool adjacent area. 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. Equipment should be thoroughly decontaminated after use.			
Fire/Explosion Hazard	Non combustible. Not considered a significant fire risk, however containers may burn.			
HAZCHEM	Not Applicable			

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	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	Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment. Prevent spillage from entering drains, sewers or water courses. Recover product wherever possible. Put residues in labelled containers for disposal. 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

Precautions for safe handling Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke Keep containers securely sealed when not in use Safe handling 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 are maintained. Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Other information 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

Suitable container	Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.	
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known	

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	sodium stearate	Stearates	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	glycerol	Glycerin mist	10 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS						
Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3	
sodium stearate	Sodium stearate		0.17 mg/m3	1.8 mg/m3	11 mg/m3	
sodium carbonate	Sodium carbonate		7.6 mg/m3	83 mg/m3	500 mg/m3	
glycerol	Glycerine (mist); (Glycerol; Glycerin)		45 mg/m3	860 mg/m3	2,500 mg/m3	
lauryl alcohol, ethoxylated	Brij-35; (alpha-Dodecyl-omega-hydroxypoly(oxyethylene))		2.9 mg/m3	31 mg/m3	200 mg/m3	
Ingredient	Original IDLH	Revis	ed IDLH			
sodium stearate	Not Available	Not Av	vailable			
sodium carbonate	Not Available N		Not Available			
glycerol	Not Available Not		nt Available			
lauryl alcohol, ethoxylated	Not Available	Not Av	vailable			
perfume compounds	Not Available No		Not Available			
water	Not Available	Not Av	vailable			

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 contended of the state of the st	trols can be highly egically "adds" and system must match is essential to obtain sssess varying		
Type of Contaminant: Air Speed				
	solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)		

	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating 0.5-1 m/s (100-200 acid fumes, pickling (released at low velocity into zone of active generation) f/min.)			
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into f/min)			
	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:			
	Lower and of the range	Lippor and 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 onl	y	
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple ext of distance from the extraction point (in simple cases). Therefore the air speed at the extraction poin distance from the contaminating source. The air velocity at the extraction fan, for example, should be a solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerat apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when	raction pipe. Velocity generally ded t should be adjusted, accordingly, a minimum of 1-2 m/s (200-400 f/mir ons, producing performance deficit n extraction systems are installed on	creases with the square after reference to n.) for extraction of s within the extraction r used.	
Personal protection				
Eye and face protection	Safety glasses with side shields Chemical goggles. 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 Intellinearce Bruilein 59] I.6/NIZ5 1336 or pational equivalent!			
Skin protection	See Hand protection below			
Hands/feet protection	 The selection of suitable gloves does not only depend on the material, but also on further marks of the chemical is a preparation of several substances, the resistance of the glove material can not be to the application. The exact break through time for substances has to be obtained from the manufacturer of the protect choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or When prolonged or frequently repeated contact may occur, a glove with a protection minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken Contaminated gloves should be replaced. For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended the dependent on the exact composition of the glove material. Therefore, glove selection shor requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove material. Therefore, glove selection shor requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove material. Therefore, glove selection shor requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove malways be taken into a	quality which vary from manufacture calculated in advance and has the ve gloves and has to be observed w After using gloves, hands should be n of gloves include: national equivalent). n class of 5 or higher (breakthroug (breakthrough time greater than 60 into account when considering glov anded. to a specific chemical, as the perm uld also be based on consideration odel. Therefore, the manufacturers' in l for specific tasks. For example: nanual dexterity is needed. However is, then disposed of. if (as well as a chemical) risk i.e. w roughly. Application of a non-perfur	er to manufacturer. Where refore to be checked prior when making a final er washed and dried washed and dried washed and dried htime greater than 240 minutes according to res for long-term use. heation efficiency of the of the task technical data should r, these gloves are only here there is abrasion or med moisturiser is	
Body protection	See Other protection below			
Dody protection	No special equipment needed when handling small quantities.			
Other protection	OTHERWISE: Overalls. Barrier cream. Eyewash unit.			

Recommended material(s)
GLOVE SELECTION INDEX

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI

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:

Sterile-Care Fresh Air Sponge

Material	CPI
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
PVA	С
VITON	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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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

 $\begin{array}{l} \mathsf{A}(\mathsf{All\ classes}) = \mathsf{Organic\ vapours,\ B\ AUS\ or\ B1} = \mathsf{Acid\ gasses,\ B2} = \mathsf{Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ B3} = \mathsf{Acid\ gas\ or\ hydrogen\ cyani$

Appearance	Blue gel		
			1
Physical state	Liquid	Relative density (Water = 1)	1000
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	10	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	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	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.			
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.			
Storilo Coro Eroch Air	TOXICITY	IRRITATION		
Sponge	Not Available	Not Available		
	TOXICITY	IRRITATION		
sodium stearate	Not Available	Not Available		
	τοχιριτγ	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg ^[2]	Eve (rabbit): 100 mg/24h moderate		
	Inhalation (quinea nig) I (50) 0.8 mg/l /2hr ^[2]	Eve (rabbit): 100 mg/30s mild		
sodium carbonate		Eve (rabbit): 50 mg SEVERE		
		Skip (rabbit): 500 mg/2/h mild		
	Oral (rat) LD50: 2800 mg/kg ^[2]			
	ΤΟΧΙΟΙΤΥ	IRRITATION		
glycerol	dermal (guinea pig) LD50: 54000 mg/kg ^[1]	Not Available		
	Oral (rat) LD50: >20-<39800 mg/kg ^[1]			
	тохісіту	IRRITATION		
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (rabbit): 0.75 mg/24h SEVERE		
lauryl alcohol, ethoxylated	Oral (rat) LD50: 1000 mg/kg ^[2]	Eye (rabbit): 100 mg		
		Skin (rabbit): 500 mg/24h mild		
	Skin (rabbit): 75 mg/24h mild			
	тохісіту	IRRITATION		
water	Oral (rat) LD50: >90000 mg/kg ^[2]	Not Available		
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances			
SODIUM STEARATE	Fatty acid salts are of low acute toxicity. Their skin and eye irritation poten poorly absorbed through the skin nor are they skin sensitisers. The availabl salts. Also, they are not considered to be mutagenic, genotoxic or carcino fatty acid salt containing detergent products is not expected to result in ar demonstrating the low acute oral toxicity of fatty acid salts and the fact tha detergents containing fatty acid salts. Also in a report published by the Gé detergent products were not mentioned as dangerous products with a hig the different exposure scenarios for the handling and use of detergent pro This extremely large MOE is large enough to be reassuring with regard to UK, the recommended dietary fatty acid intake by the Department of Healti body weight per day. This exposure is several orders of magnitude above on the available data, the use of fatty acid salts in household detergent and	ial is chain length dependent and decreases with increasing chain length - they are e repeated dose toxicity data demonstrate the low toxicity of the fatty acids and their genic, and are not reproductive or developmental toxicants. Accidental ingestion of y significant adverse health effects. This assessment is based on toxicological data that a single fatality has been reported in the UK following accidental ingestion of erman Federal Institute for Health Protection of Consumers and Veterinary Medicine, h incidence if poisoning. The estimated total human exposure to fatty acid salts, from ducts containing fatty acid salts, showed a margin of exposure (MOE) of 258,620. the relatively small variability of the hazard data on which it is based. Also, in the h is about 100 g of fatty acids per day or 1.7 g (1700 mg) of fatty acids per kilogram that resulting from exposure to fatty acid salts in household cleaning products. Based I cleaning products does not raise any safety concerns with regard to consumer		
	for sodium carbonate: Sodium carbonate has no or a low skin irritation potential but it is conside tract is also possible. No valid animal data are available on repeated dose toxicity studies by ora	red irritating to the eyes. Due to the alkaline properties an irritation of the respiratory		

SODIUM CARBONATE SODIUM CARBONATE Nhalation study, which was not reported in sufficient detail, revealed local effects on the lungs which could be expected based on the alkaline nature of the compound. Under normal handling and use conditions neither the concentration of sodium in the blood nor the pH of the blood will be increased and therefore sodium carbonate is not expected to be systemically available in the body. It can be stated that the substance will neither reach the foetus nor reach male and female reproductive organs, which shows that there is no risk for developmental toxicity and no risk for toxicity to reproduction. This was confirmed by a developmental study with rabbits, rats and mice. An *in vitro* mutagenicity test with bacteria was negative and based on the structure of sodium carbonate no genotoxic effects are expected. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often

characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

GLYCEROL	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 sensitiser. 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 is 10,000 mg/kg bw/day (20% in diet). At this dose level no systemic or local effects were observed. For inhalation exposure to aerosols, the NOAEC for local irritant effects to the upper respiratory tract is 165 mg/m3 and 662 mg/m3 for systemic effects. Genotoxicity: Glycerol is free from structural alerts, which raise concern for mutagenicity. Glycerol does not induce gene mutations in bacterial strains, chromosomal effects in mammalian cells or primary DNA damage <i>in vitro</i> . Results of a limited gene mutation test in mammalian cells were of uncertain biological relevance. <i>In vivo</i> , glycerol produced no statistically significant effect in a chromosome aberrations and dominant lethal study. However, the limited details provided and the absence of a positive control, prevent any reliable conclusions to be drawn from the <i>in vivo</i> data. Overall, glycerol is not considered to posses genotoxic potential. Carcinogenicity: The experimental data from a limited 2 year dietary study in the rat does not provide any basis for concerns in relation to carcinogenicity. Data from non-guideline studies designed to investigate tumour promotion activity in male mice suggest that oral administration of glycerol up to 20 weeks had a weak promotion effect on the incidence of tumour
LAURYL ALCOHOL, ETHOXYLATED	 dearing products. Exponent to these chemicals and occur through ingesting, inhalation, or constant with the silon of yeas. States of same toxing show that devices on states of the silon of yeas. States of same toxing show that the varies of the same toxing with states indexides in save to be incorted. Multiple studies investigating the acute toxing of alcohol devications are associated instates, and therang. Similarly, silon toxic influence in the silon of yeas of the same toxing. Cirical animal studies indicates these chemicals may produce gestrointenial initiation such as ultramines of the same down and exposed instates. The chemical shows no initiation to being a genotoxin, accencegent, or mulagen (HERA ADOT). No information was available on release at which these differs in genotoxins. The same toxing integration in the silon or yeas and states. The chemical shows no initiation of being a genotoxin, accencegent, or mulagen (HERA ADOT). No information was available on release at the silon or yeagens will stabilize the substantiation in the silon or yeagens will stabilize to produce shows the silon or yeagens will stabilize toxic in the silon or yeagens will be silon or yeagens will be silon or yeagens will be silon or yeagens will b

	kidney toxicant, has been identified as an impurity or a minor me	etabolite of glycol ethers in animal stu	dies it does not appear to contribute to the toxicity of glycol		
	erners. The metabolites of category members are not likely to be metabolized to any large extent to toxic molecules such as ethylene glycol or the mono alkoxy acids				
	because metabolic breakdown of the ether linkages also has to occur				
	Acute toxicity: Category members generally display low acute toxicity by the oral, inhalation and dermal routes of exposure. Signs of toxicity in animals				
	receiving remail or an uses of 1 GBE included loss of righting reflex and flaccid muscle tone, coma, and heavy breathing. Animals administered lethal or al doses of TGEE exhibited letharov, ataxia, blood in the urogenital area and biloerection before death				
	Irritation: The data indicate that the glycol ethers may cause mild to moderate skin irritation. TGEE and TGBE are highly irritating to the eves. Other category				
	members show low eye irritation.				
	tepeat dose toxicity: Results of these studies suggest that repeated exposure to moderate to high doses of the glycol				
	thers in this category is required to produce systemic toxicity				
	testicular degeneration (scored as trace in severity) was observ	n a 21-day demai study, IGME, TGEE, and TGBE were administered to rabbits at 1,000 mg/kg/day. Erythema and oedema were observed. In addition,			
	jiant cells, focal tubular hypospermatogenesis, and increased cytoplasmic vacuolisation. Due to a high incidence of similar spontaneous changes				
	n normal New Zealand White rabbits, the testicular effects were considered not to be related to treatment. Thus, the NOAELs for TGME, TGEE and TGBE				
	were established at 1000 mg/kg/day. Findings from this report w	vere established at 1000 mg/kg/day. Findings from this report were considered			
	A 2-week dermal study was conducted in rats administered TGN	VE at doses of 1.000, 2.500, and 4.0	00 mg/kg/day . In this study, significantly-increased red		
	blood cells at 4,000 mg/kg/day and significantly-increased urea of	concentrations in the urine at 2,500 r	ng/kg/day were observed. A few of the rats given 2,500 or		
	4,000 mg/kg/day had watery caecal contents and/or				
	haemolysed blood in the stomach These gross pathologic obset	ervations were not associated with a	hy histologic abnormalities in these tissues or alterations in		
	naematologic and clinical chemistry parameters. A few males a test site. These alterations were slight in degree and did not ad	nd females treated with either 1,000 verselv affect the rats	or 2,500 mg/kg/day had a few small scabs of crusts at the		
	In a 13-week drinking water study, TGME was administered to ra	ats at doses of 400, 1,200, and 4,000) mg/kg/day. Statistically-significant changes in relative liver		
	weight were observed at 1,200 mg/kg/day and higher. Histopath	hological effects included hepatocell	ular cytoplasmic vacuolisation (minimal to mild in most		
	animals) and hypertrophy (minimal to mild) in males at all dose	s and hepatocellular hypertrophy (m	inimal to mild) in high dose females. These effects were		
	statistically significant at 4,000 mg/kg/day. Cholangiofibrosis was	s observed in 7/15 high-dose males;	this effect was observed in a small number of bile ducts		
	effects were observed. The changes in motor activity were secon	darv to systemic toxicity	eu in the high-dose animals, but no other heurological		
	Mutagenicity: Mutagenicity studies have been conducted for se	everal category members. All in vitro	and in vivo studies were negative at concentrations up to		
	5,000 micrograms/plate and 5,000 mg/kg, respectively, indicating that the category members are not genotoxic at the concentrations used in these studies. The				
	uniformly negative outcomes of various mutagenicity studies performed on category members lessen the concern for carcinogenicity.				
	toxicity tests with the surrogates have included examination of reproductive organs. A lower molecular weight glycol ether, ethylene glycol methyl ether				
	(EGME), has been shown to be a testicular toxicant. In addition	n, results of repeated dose toxicity te	sts with TGME clearly show testicular toxicity at an oral dose		
	of 4,000 mg/kg/day four times greater that the limit dose of 1,000	0 mg/kg/day recommended for repea	t dose studies. It should be noted that TGME is 350 times		
	less potent for testicular effects than EGME. TGBE is not assoc	ciated with testicular toxicity, TetraME	is not likely to be metabolised by any large extent to		
	toxicity (even when administered intravenously at 1.000 mg/kg/d	lg predominantiy metriyiated giycore lav).	thers in the CS-CTTTange does not produce testicular		
	Developmental toxicity: The bulk of the evidence shows that effects on the foetus are not noted in treatments with . 1,000 mg/kg/day during gestation. At 1,250 to 1,650 mg/kg/day TGME (in the rat) and 1,500 mg/kg/day (in the rabbit), the developmental effects observed included skeletal variants and decreased body weight gain.				
	The material may cause skin irritation after prolonged or repeat	ed exposure and may produce a co	ntact dermatitis (nonallergic). This form of dermatitis is often		
	characterised by skin redness (erythema) and swelling the epid	lermis. Histologically there may be ir	tercellular oedema of the spongy layer (spongiosis) and		
SODIUM STEARATE &	No significant acute toxicological data identified in literature search.				
WATER					
	Acthma like aumatama may continue for months or aven years	ofter evenesure to the meterial econom	This may be due to a non-allerganic condition known on		
	reactive airways dysfunction syndrome (RADS) which can occu	in following exposure to high levels of	f highly irritating compound. Key criteria for the diagnosis		
SODIUM CARBONATE &	of RADS include the absence of preceding respiratory disease,	, in a non-atopic individual, with abru	pt onset of persistent asthma-like symptoms within minutes		
GLYCEROL & LAURYL	to hours of a documented exposure to the irritant. A reversible	airflow pattern, on spirometry, with the	ne presence of moderate to severe bronchial hyperreactivity		
ALCOHOL, ETHOXYLATED	of RADS. RADS (or asthma) following an irritating inhalation is	an infrequent disorder with rates rel	ated to the concentration of and duration of exposure to the		
	irritating substance. Industrial bronchitis, on the other hand, is a	a disorder that occurs as result of ex	posure due to high concentrations of irritating substance		
	(often particulate in nature) and is completely reversible after ex	xposure ceases. The disorder is cha	racterised by dyspnea, cough and mucus production.		
Acute Tovicity		Carainananiaitu			
Acute Toxicity	0	Carcinogenicity	0		
Skin irritation/Corrosion	3	Reproductivity	3		
Damage/Irritation	0	STOT - Single Exposure	0		
Respiratory or Skin sensitisation	\odot	STOT - Repeated Exposure	0		

Aspiration Hazard

Legend:

Data available but does not fill the criteria for classification
 Data required to make classification available

🚫 – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Mutagenicity

Toxicity					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium carbonate	LC50	96	Fish	300mg/L	4
sodium carbonate	EC50	48	Crustacea	=176mg/L	1
sodium carbonate	EC50	96	Algae or other aquatic plants	242mg/L	4
sodium carbonate	EC50	384	Crustacea	149.200mg/L	3
sodium carbonate	NOEC	16	Crustacea	424mg/L	4

glycerol	LC50	96	Fish	>11mg/L	2
glycerol	EC50	96	Algae or other aquatic plants	77712.039mg/L	3
glycerol	EC0	24	Crustacea	>500mg/L	1
lauryl alcohol, ethoxylated	LC50	96	Fish	1.5mg/L	4
lauryl alcohol, ethoxylated	BCF	72	Fish	1mg/L	4
lauryl alcohol, ethoxylated	EC50	504	Crustacea	0.46mg/L	5
lauryl alcohol, ethoxylated	NOEC	504	Crustacea	0.24mg/L	5
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium carbonate	LOW	LOW
glycerol	LOW	LOW
lauryl alcohol, ethoxylated	LOW	LOW
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
sodium carbonate	LOW (LogKOW = -0.4605)
glycerol	LOW (LogKOW = -1.76)
lauryl alcohol, ethoxylated	LOW (LogKOW = 3.6722)
water	LOW (LogKOW = -1.38)

Mobility in soil

Ingredient	Mobility
sodium carbonate	HIGH (KOC = 1)
glycerol	HIGH (KOC = 1)
lauryl alcohol, ethoxylated	LOW (KOC = 10)
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging	 Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
disposal	 Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Labels Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	

Australia Inventory of Chemical Substances (AICS)

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

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

SODIUM STEARATE(822-16-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

SODIUM CARBONATE(497-19-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

Australia Inventory of Chemical Substances (AICS)

GLYCEROL(56-81-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

LAURYL ALCOHOL, ETHOXYLATED(9002-92-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (lauryl alcohol, ethoxylated; glycerol; sodium stearate; water; sodium carbonate)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (lauryl alcohol, ethoxylated; water)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
sodium stearate	822-16-2, 68309-30-8
sodium carbonate	497-19-8, 7542-12-3, 1314087-39-2, 1332-57-6
glycerol	56-81-5, 29796-42-7, 30049-52-6, 37228-54-9, 75398-78-6, 78630-16-7, 8013-25-0
lauryl alcohol, ethoxylated	9002-92-0, 12789-47-8

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

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

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
- 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

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