### **Northfork GECA Foaming Handwash**

### **ACCO Brands Australia Pty Ltd**

Version No: 1.6
Safety Data Sheet according to WHS and ADG requirements

Issue Date: **08/06/2017** Print Date: **08/06/2017** S.GHS.AUS.EN

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

### **Product Identifier**

Product name	Northfork GECA Foaming Handwash			
Synonyms	Not Available			
Other means of identification	0.4ml Cartridge - 638049600	0.8ml - 638049500		

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

Relevant identified uses	Hand washing

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

Registered company name	ACCO Brands Australia Pty Ltd		
Address	17-19 Waterloo Street, Queanbeyan NSW 2620 Australia		
Telephone	+61-2-96740900		
Fax	+61-2-96740910		
Website	www.accobrands.com.au		
Email	sds.anz@acco.com		

### **Emergency telephone number**

Association / Organisation	sisons Information Line		
Emergency telephone numbers	13 11 26		
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 <sup>[1]</sup>	Not Applicable

### Label elements

Lubor oromonto	
Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE

### Hazard statement(s)

Not Applicable

### Precautionary statement(s) Prevention

Trocurionary diatomoni(o) Provention		
P101 If medical advice is needed, have product container or label at hand.		
P102 Keep out of reach of children.		
P103	Read label before use.	

### Precautionary statement(s) Response

Not Applicable

### Precautionary statement(s) Storage

Not Applicable

### Precautionary statement(s) Disposal

Not Applicable

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### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### **Substances**

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight] Name			
32612-48-9	<10	ammonium lauryl ether sulfate		
102-77-2	<10	2-(morpholinothio)benzothiazole		
56-81-5	<10	glycerol		
13197-76-7	<10	lauryl hydroxysultaine		

### **SECTION 4 FIRST AID MEASURES**

### Description of first aid measures

Eye Contact    If this product comes in contact with eyes:		
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.	
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>	
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	

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

Treat symptomatically.

### **SECTION 5 FIREFIGHTING MEASURES**

### **Extinguishing media**

- $\,\blacktriangleright\,$  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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT 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> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</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

	<ul> <li>Clean up all spills immediately.</li> </ul>
	Avoid breathing vapours and contact with skin and eyes.
Miner Caille	<ul> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Minor Spills	<ul> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
	► Wine un

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#### 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.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Neutralise/decontaminate residue (see Section 13 for specific agent)
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using
- 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**

Major Spills

#### Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- ► Avoid contact with moisture
- 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. Launder contaminated clothing before re-use.
  - 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.
  - DO NOT allow clothing wet with material to stay in contact with skin

Other information

Safe handling

### 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

None known

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OFL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	glycerol	Glycerin mist	10 mg/m3	Not Available	Not Available	Not Available

### **EMERGENCY LIMITS**

ingredient	Material Harrie	TEEE-5			ILLE-5
glycerol	Glycerine (mist); (Glycerol; Glycerin)	45 mg/m3 860			2,500 mg/m3
Ingredient Original IDLH Revised IDLH					
ammonium lauryl ether sulfate	Not Available Not Available				
2-(morpholinothio)benzothiazole	Not Available Not Available				
glycerol	Not Available Not Available				
lauryl hydroxysultaine	Not Available		Not Available		

### **Exposure 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.

TEEL -2

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match

### Appropriate engineering

## controls

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. If risk of overexposure exists, wear SAA 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: Chemwatch: 9-400147 Page 4 of 9 Issue Date: 08/06/2017
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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)

direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)

1-2.5 m/s (50-100 f/min.)

1-2.5 m/s (200-500 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 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 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.

#### 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 Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

### Skin protection

See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

### NOTE:

- ► The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

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 dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- chemical resistance of glove material,
- · glove thickness and
- dexterity

### Hands/feet protection

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a 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.
- · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to 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 into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

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.

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	Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

### 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	Α
NATURAL+NEOPRENE	Α
NITRILE	Α

<sup>\*</sup> CPI - Chemwatch Performance Index

- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### Respiratory protection

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

### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Text		
Physical state	Liquid	Relative density (Water = 1)	1.00-1.05
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	6-8	Decomposition temperature	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 Available
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 (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	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

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).

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Ingestion animal or human evidence. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry Skin Contact through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. 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 Eve by tearing or conjunctival redness (as with windburn).

<b>Chronic</b> Sk	kin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.				
	1				
OFCA Francisco Hamaburah	TOXICITY	IRRITATION	RITATION		
GECA Foaming Handwash	Not Available	Not Available			
	TOXICITY		IRRITATION		
ammonium lauryl ether sulfate	Oral (rat) LD50: 630 mg/kgd <sup>[2]</sup>		Not Available		
	TOXICITY	IRRITATION			
	Dermal (rabbit) LD50: >7940 mg/kg*g <sup>[2]</sup> Eye (rabbit): (FHSA)		5.0/110.0 *		
2-(morpholinothio)benzothiazole	Oral (rat) LD50: >8200 mg/kg** <sup>[2]</sup> Eye (rabbit): 100 mg		24h-moderate		
z (morpholino)bonzotnazote	non-irritating				
		Skin (rabbit): (FHSA) 0.0/8.0 *			
		slight irritation			
mb re a med	TOXICITY		IRRITATION		
glycerol	Oral (rat) LD50: 12600 mg/kg <sup>[2]</sup>		Not Available		
la und hundranna distina	TOXICITY	IRRITATION			
lauryl hydroxysultaine	Not Available	Not Available			
	<u> </u>				

Legend:

1. 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

### AMMONIUM LAURYL ETHER SULFATE

2-(MORPHOLINOTHIO)BENZOTHIAZOLE

Alcohol ethoxysulfates (AES) are of low acute toxicity. Neat AES are irritant to the skin and eves.

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce

conjunctivitis

Skin and eye irritation effects may be mild. Allergic skin reaction is possible in susceptible persons. There is a low concern for mutations. It is a potent skin sensitiser and similar reactions with other rubber chemicals can occur. Following oral administration, the central nervous system, lung, liver, kidney, stomach and intestines may be affected. There was no conclusive evidence of effects on reproduction although 2-mercaptobenzothiazole (MBT) may have some potential to cause cancer.

Members of this category pose a low concern for acute toxicity. Exposure is likely from skin contact with rubber or latex articles. Skin irritation, or possibly an allergic skin reaction may occur, but only in sensitive individuals subjected to prolonged and repeated exposure, especially under moist conditions.

for morpholine:

There have been no reports on incidents of acute poisoning or on the effects of short- or long-term exposure to morpholine by the general population. The phenomenon known as blue vision or glaucopsia, as well as some instances of skin and respiratory tract irritation, have been described in reports of occupational exposure to morpholine; however, no atmospheric concentrations of morpholine were given. It was reported that the number of chromosomal aberrations in the lymphocytes of peripheral blood of workers exposed for 3-10 years to morpholine at  $concentrations \ of \ 0.54-0.93 \ mg/m3 \ did \ not \ differ \ significantly \ from \ controls. \ Undiluted \ morpholine \ is \ strongly \ irritant \ to \ skin; \ a \ dilute \ solution \ (1$ to 40) was mildly irritant. The potential carcinogenicity of morpholine in exposed human populations has not been investigated. Morpholine is absorbed after oral, dermal and inhalation exposure. In the rat following oral and intravenous administration, morpholine is rapidly distributed, the highest concentrations being found in the intestine and muscle. In the rabbit, following intravenous and inhalation exposure, morpholine is preferentially distributed to the kidneys, lower concentrations reaching the lung, liver and blood. Specific developmental abnormalities (musculoskeletal system) recorded.

### GLYCFROL

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 of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible 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 bronchitis is a disorder that

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		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.  At very high concentrations, evidence predicts that glycerol may cause tremor, irritation of the skin, eyes, digestive tract and airway. Otherwise it is of low toxicity. There is no significant evidence to suggest that it causes cancer, genetic, reproductive or developmental toxicity.			
LAURYL HYDROXYSULTAINE		body. Concentrated betaines are expected to irritate the skin and eyes, but dilute	ty was found in animal testing. Tests for mutation-causing potential have proved negative.		
Acute Toxicity	0	Carcinogenicity	0		
Skin Irritation/Corrosion	0	Reproductivity	0		
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0		
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0		
Mutagenicity	0	Asniration Hazard	0		

Legend:

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

O - Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

GECA Foaming Handwash	ENDPOINT		TEST DURATION (HR)		SPECIES	VALUE		sou	RCE
GECA Foaming Handwash	Not Applicable		Not Applicable		Not Applicable	Not App	licable	Not A	pplicable
	ENDPOINT		TEST DURATION (HR)		SPECIES	VALUE		SOU	RCE
ammonium lauryl ether sulfate	Not Applicable		Not Applicable		Not Applicable	Not App	licable	Not A	pplicable
	ENDPOINT	TE	ST DURATION (HR)	SPEC	CIES		VALUE		SOURCE
2-(morpholinothio)benzothiazole	LC50	96		Fish			0.31mg/L		2
	EC50	48		Crust	stacea		=4mg/L		1
	EC50	96		Algae	Algae or other aquatic plants		923.219mg/L		3
	EC50	48		Crust	Crustacea		=4.5mg/L		1
	NOEC	213	36	Fish			0.041mg/L		2
	ENDPOINT	TE	ST DURATION (HR)	SPECI	ES		VALUE		SOURCE
	LC50	96	. ,	Fish			>11mg/L		2
glycerol	EC50	96		Algae	or other aquatic plants		77712.039mg	/L	3
	EC0	24		Crusta	cea		>500mg/L		1
lauryl hydroxysultaine	ENDPOINT		TEST DURATION (HR)		SPECIES		VALUE		RCE
iaui yi fiydroxysultaine	Not Applicable		Not Applicable		Not Applicable	Not App	licable	Not A	pplicable

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - 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
2-(morpholinothio)benzothiazole	HIGH	HIGH
glycerol	LOW	LOW

### Bioaccumulative potential

Ingredient	Bioaccumulation
2-(morpholinothio)benzothiazole	LOW (LogKOW = 1.0246)
glycerol	LOW (LogKOW = -1.76)

### Mobility in soil

• • • • • • • • • • • • • • • • • • • •	
Ingredient	Mobility

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2-(morpholinothio)benzothiazole	LOW (KOC = 2088)
glycerol	HIGH (KOC = 1)

### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible

#### Otherwise:

- Fill f container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate

- ▶ Reduction
- Reuse

#### Product / Packaging disposal

▶ Recycling Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ 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
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed 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

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

### **SECTION 15 REGULATORY INFORMATION**

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

AMMONIUM LAURYL ETHER SULFATE(32612-48-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

2-(MORPHOLINOTHIO)BENZOTHIAZOLE(102-77-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

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

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

### LAURYL HYDROXYSULTAINE(13197-76-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

National Inventory	Status
Australia - AICS	N (lauryl hydroxysultaine)
Canada - DSL	Υ
Canada - NDSL	N (glycerol; lauryl hydroxysultaine; 2-(morpholinothio)benzothiazole; ammonium lauryl ether sulfate)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (glycerol; lauryl hydroxysultaine; 2-(morpholinothio)benzothiazole; ammonium lauryl ether sulfate)
Korea - KECI	N (lauryl hydroxysultaine)

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New Zealand - NZIoC	Y
Philippines - PICCS	N (lauryl hydroxysultaine)
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
ammonium lauryl ether sulfate	32612-48-9, 67762-19-0
glycerol	56-81-5, 29796-42-7, 30049-52-6, 37228-54-9, 75398-78-6, 78630-16-7, 8013-25-0

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

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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