# **Northfork All Purpose Cleaner Antibacterial**

ACCO Brands Australia Pty Ltd

Version No: 1.3
Safety Data Sheet according to WHS and ADG requirements

Issue Date: 15/04/2021

S.GHS.AUS.EN

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

#### **Product Identifier**

Product name	Northfork All Purpose Cleaner Antibacterial	
Synonyms	Not Available	
Other means of identification	2L - 634043800 5L - 634040700 15L - 634040800	

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

Relevant identified uses	General purpose cleaner and disinfectant

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

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

#### Emergency telephone number

Association / Organisation	Poisons Information Line
Emergency telephone numbers	13 11 26
Other emergency telephone numbers	13 11 26

#### **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	5	
Classification <sup>[1]</sup>	Serious Eye Damage Category 1, Acute Aquatic Hazard Category 2, Skin Corrosion/Irritation Category 1A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)	
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		

#### Label elements

GHS label elements





SIGNAL WORD

DANGER

#### Hazard statement(s)

H318	Causes serious eye damage
H401	Toxic to aquatic life
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation

#### Precautionary statement(s) Prevention

P101 If medical advice is needed, have product container or label at hand.		
P102	Keep out of reach of children.	

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#### **All Purpose Cleaner Antibacterial**

P103	Read label before use.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P280	P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P273 Avoid release to the environment.		

#### Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER or doctor/physician.	
P363	P363 Wash contaminated clothing before reuse.	
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		

#### Precautionary statement(s) Storage

P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

#### Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.
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#### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
1344-09-8	<10	sodium metasilicate
7601-54-9	<10	trisodium phosphate
64-02-8	<10	EDTA tetrasodium salt
8001-54-5	<10	benzalkonium chloride
68131-39-5	<10	alcohols C12-15 ethoxylated

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

Description of first aid me	asures
Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with 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.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  Immediately flush body and clothes with large amounts of water, using safety shower if available.  Quickly remove all contaminated clothing, including footwear.  Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.  Transport to hospital, or doctor.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

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

Treat symptomatically.

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- ▶ Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.

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- Oxygen is given as indicated.
- ▶ The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Pamage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure.

INGESTION:

▶ Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

- ▶ Neutralising agents should never be given since exothermic heat reaction may compound injury.
- \* Catharsis and emesis are absolutely contra-indicated.
- \* Activated charcoal does not absorb alkali.
- \* Gastric lavage should not be used.

- Supportive care involves the following:
- Withhold oral feedings initially.
- ▶ If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- ▶ Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

SKIN AND EYE:

▶ Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

#### **SECTION 5 FIREFIGHTING MEASURES**

#### Extinguishing media

- ▶ 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 poisonous fumes. May emit corrosive fumes.</li> </ul>

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	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.

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

#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling 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. Safe handling DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. ▶ Avoid contact with incompatible materials. ► When handling, **DO NOT** eat, drink or smoke. Other information

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#### Suitable container

- ${\color{red} \blacktriangleright} \ \ \mbox{Polyethylene or polypropylene container}.$
- Packing as recommended by manufacturer
- ▶ Check all containers are clearly labelled and free from leaks.

Storage incompatibility

- Avoid contact with copper, aluminium and their alloys.
- ► Avoid strong acids, acid chlorides, acid anhydrides and chloroformates

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

#### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium metasilicate	Silicic acid, sodium salt; (Sodium silicate)	5.9 mg/m3	65 mg/m3	390 mg/m3
trisodium phosphate	Sodium phosphate, tribasic; (Trisodium phosphate)	5 mg/m3	250 mg/m3	1500 mg/m3
EDTA tetrasodium salt	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	6 mg/m3	66 mg/m3	400 mg/m3
EDTA tetrasodium salt	Ethylenediaminetetraacetic acid, tetrasodiumn salt; (Tetrasodium EDTA)	30 mg/m3	330 mg/m3	2000 mg/m3
benzalkonium chloride	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)	4.7 mg/m3	48 mg/m3	48 mg/m3

Ingredient	Original IDLH	Revised IDLH
sodium metasilicate	Not Available	Not Available
trisodium phosphate	Not Available	Not Available
EDTA tetrasodium salt	Not Available	Not Available
benzalkonium chloride	Not Available	Not Available
alcohols C12-15 ethoxylated	Not Available	Not Available

#### **Exposure controls**

# Appropriate engineering

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

The basic types of engineering controls are:

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

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required

#### Personal protection











# Eye and face protection

- Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure
- Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted.
- Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.
- Alternatively a gas mask may replace splash goggles and face shields.
- 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.

#### Skin protection See Hand protection below

#### Hands/feet protection

- ► Elbow length PVC gloves
- ▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

#### **Body protection**

#### See Other protection below Overalls.

#### Other protection

- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Eve wash unit. Not Available

# Thermal hazards

#### Recommended material(s) **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

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#### Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection

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Material	СРІ
BUTYL	Α
NEOPRENE	Α
VITON	Α
NATURAL RUBBER	С
PVA	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.

varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = 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

The state of the s			
Appearance	A clear green liquid		
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)	12-14	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%)	11-13
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 can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.  Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane.  Not normally a hazard due to non-volatile nature of product  The material has NOT been classified by EC Directives or other classification systems as "harmful by inhalation". This is because of the lack of corroborating animal or human evidence.
Ingestion	Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow.  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 can produce severe chemical burns within the oral cavity and gastrointestinal tract following ingestion.

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Skin Contact	The material can produce severe chemical burns following Skin contact is not thought to have harmful health effects (a through wounds, lesions or abrasions.  Open cuts, abraded or irritated skin should not be exposed Entry into the blood-stream, through, for example, cuts, abra of the material and ensure that any external damage is suita	as classified under EC I to this material asions or lesions, may p	Directives); the material may		
Еуе	If applied to the eyes, this material causes severe eye dama Direct eye contact with corrosive bases can cause pain and the iris. Mild cases often resolve; severe cases can be pro the eye, cataracts, eyelids glued to the eyeball and blindnes The material can produce severe chemical burns to the eye	I burns. There may be stonged with complications.	ons such as persistent swell	ling, scarring, permanent cloudiness, bulging of	
Chronic	Repeated or prolonged exposure to corrosives may result in jaw. Bronchial irritation, with cough, and frequent attacks of Long-term exposure to respiratory irritants may result in dis Substance accumulation, in the human body, may occur and	bronchial pneumonia mease of the airways inv	nay ensue. olving difficult breathing and	d related systemic problems.	
All Purpose Cleaner Antibacterial	TOXICITY		RRITATION		
Antibacterial	Not Available		Not Available		
	TOXICITY	IR	RITATION		
sodium metasilicate	dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup>		in (human): 250 mg/24h SE	VERE	
	Oral (rat) LD50: 500 mg/kg <sup>[1]</sup>		sin (rabbit): 250 mg/24h SE\		
	TOXICITY		IRRITATION		
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	- moderate*			
trisodium phosphate	Oral (rat) LD50: 7.4 gm/ Kg <sup>[1]</sup> *[CCINFO - Monsanto]				
			Eye (rabbit):(FSHA) Corr	rosive*	
	scale of 8.0  Skin (rabbit):(FSHA) 3.3 on a		on a		
			Chair (rabbity.(i Ci ii i) c.c.	5.74	
	TOXICITY	IRRI	TATION		
	Oral (rat) LD50: 630 mg/kg*g <sup>[2]</sup>		*[BASF]		
EDTA tetrasodium salt	The state of the s	Eyes (rabbit): 1.9 mg			
		Eyes	(rabbit):100 mg/24h-moder	rate	
		Skin (rabbit):500 mg/24h-moderate		ate	
	TOXICITY		IRRITATION		
	Dermal (rabbit) LD50: 1560 mg/kgE <sup>[2]</sup> Eye (human): 0		Eye (human): 0.05 mg	95 mg SEVERE	
benzalkonium chloride	ro		Eye (rabbit): 1mg/24h	/24h SEVERE	
			Skin (human): 0.15 mg	g/72h mild	
	TOXICITY			IRRITATION	
alcohols C12-15 ethoxylated	Dermal (rabbit) LD50: >2000 mg/kgt <sup>[2]</sup>			Eye: SEVERE *	
	Oral (rat) LD50: 1600 mg/kg** <sup>[2]</sup>		Skin: slight		
Legend:	Nalue obtained from Europe ECHA Registered Substance     extracted from RTECS - Register of Toxic Effect of chemic		/alue obtained from manufa	cturer's SDS. Unless otherwise specified data	
All Purpose Cleaner Antibacterial	Asthma-like symptoms may continue for months or even yer reactive airways dysfunction syndrome (RADS) which can of RADS include the absence of preceding respiratory dises to hours of a documented exposure to the irritant. A reversil on methacholine challenge testing and the lack of minimal I	occur following exposu ase, in a non-atopic ind ole airflow pattern, on s	re to high levels of highly irr ividual, with abrupt onset of pirometry, with the presence	itating compound. Key criteria for the diagnosis persistent asthma-like symptoms within minutes of moderate to severe bronchial hyperreactivity	

on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. 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. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. No significant acute toxicological data identified in literature search.

#### SODIUM METASILICATE

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes Version No: **1.3** Page **7** of **9** Issue Date: **15/04/2021** 

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to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. 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. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.

#### TRISODIUM PHOSPHATE

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. 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. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.

#### BENZALKONIUM CHLORIDE

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. 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. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. Alkyldimethylbenzylammonium chlorides are in the list of dangerous substances of council directive, classified as "harmful in contact with skin and on ingestion", and "corrosive and very toxic to aquatic organisms". It can cause dose dependent skin and eye irritation with possible deterioration of vision, possible sensitisation in those with pre-existing eczema. It does not cause cancer, genetic defect, foetal or developmental abnormality.

#### ALCOHOLS C12-15 ETHOXYLATED

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 volumes well above a reasonable intake level would have to occur to produce any toxic response. Moreover, no fatal case of poisoning with alcohol ethoxylates has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have shown that the use of these compounds is of low concern in terms of oral and dermal toxicity.

Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as ulcerations of the stomach, pilo-erection, diarrhea, and lethargy. Similarly, slight to severe irritation of the skin or eye was generated when undiluted alcohol ethoxylates were applied to the skin and eyes of rabbits and rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 2007).

Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse reproductive or developmental effects were observed.

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

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

for Tergitol 25-L-9: Neodol 25-9 Neodol 25-7 \*Shell Canada \*\* Huntsman (for Teric 12A9)

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	✓	Reproductivity	0
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

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**

#### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium metasilicate	LC50	96	Fish	260- 310mg/L	2
sodium metasilicate	NOEC	96	Fish	348mg/L	2
sodium metasilicate	EC50	48	Crustacea	1700mg/L	2
sodium metasilicate	EC50	96	Crustacea	160mg/L	2
sodium metasilicate	EC50	72	Algae or other aquatic plants	207mg/L	2
trisodium phosphate	LC50	96	Fish	28.5mg/L	4
trisodium phosphate	EC50	48	Crustacea	>100mg/L	2
trisodium phosphate	EC50	48	Algae or other aquatic plants	300mg/L	2
trisodium phosphate	EC50	72	Algae or other aquatic plants	>100mg/L	2
trisodium phosphate	NOEC	72	Algae or other aquatic plants	>100mg/L	2
EDTA tetrasodium salt	NOEC	71	Algae or other aquatic plants	0.0003802mg/L	4
EDTA tetrasodium salt	EC10	72	Algae or other aquatic plants	=0.48mg/L	1
EDTA tetrasodium salt	EC50	72	Algae or other aquatic plants	=1.01mg/L	1
EDTA tetrasodium salt	LC50	96	Fish	41mg/L	2
EDTA tetrasodium salt	EC50	48	Crustacea	140mg/L	2
benzalkonium chloride	EC50	24	Algae or other aquatic plants	0.0013mg/L	4
benzalkonium chloride	EC50	48	Crustacea	0.018mg/L	4
benzalkonium chloride	EC50	96	Algae or other aquatic plants	0.056mg/L	4

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benzalkonium chloride	LC50	96	Fish	0.32mg/L	4
benzalkonium chloride	NOEC	1	Algae or other aquatic plants	0.0025mg/L	4
alcohols C12-15 ethoxylated	LC50	96	Fish	0.59mg/L	2
alcohols C12-15 ethoxylated	EC50	48	Crustacea	0.13mg/L	2
alcohols C12-15 ethoxylated	EC50	48	Crustacea	0.14mg/L	2
alcohols C12-15 ethoxylated	NOEC	48	Crustacea	0.056mg/L	2
alcohols C12-15 ethoxylated	EC50	72	Algae or other aquatic plants	0.3mg/L	2
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				

Toxic to aquatic organisms

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
trisodium phosphate	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
trisodium phosphate	LOW (LogKOW = -0.7699)

#### Mobility in soil

Ingredient	Mobility
trisodium phosphate	HIGH (KOC = 1)

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

# Product / Packaging disposal

- ► 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.
- Treat and neutralise at an approved treatment plant.
- Treatment should involve: Neutralisation with suitable dilute acid followed 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**

<u> </u>	
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

SODIUM METASILICATE(1344-09-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

TRISODIUM PHOSPHATE(7601-54-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

EDTA TETRASODIUM SALT(64-02-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

BENZALKONIUM CHLORIDE(8001-54-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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Australia Inventory of Chemical Substances (AICS)

#### ALCOHOLS C12-15 ETHOXYLATED(68131-39-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists  Australia Inventory of Chemical Substances (AICS)	
National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Y
Canada - NDSL	N (trisodium phosphate; sodium metasilicate; alcohols C12-15 ethoxylated; EDTA tetrasodium salt; benzalkonium chloride)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	N (benzalkonium chloride)
Japan - ENCS	N (alcohols C12-15 ethoxylated; benzalkonium chloride)
Korea - KECI	Υ
New Zealand - NZIoC	Y
Philippines - PICCS	Υ
USA - TSCA	N (benzalkonium chloride)
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

<del>-</del>	
Name	CAS No
trisodium phosphate	7601-54-9, 96337-98-3
EDTA tetrasodium salt	10378-23-1, 13235-36-4, 194491-31-1, 64-02-8

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.

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**

 ${\sf PC-TWA} : {\sf Permissible\ Concentration-Time\ Weighted\ Average}$ 

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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