

**Clark Products Limited** 

Version No: **1.3** Safety Data Sheet according to HSNO Regulations Chemwatch Hazard Alert Code: 3

Issue Date: 08/09/2014 Print Date: 08/03/2017 S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	STRIVE
Synonyms	ASX3100
Other means of identification	Not Available

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

Relevant identified uses Hard surface cleaner-sanitiser

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

Registered company name	Clark Products Limited
Address	24 Niven Street Napier New Zealand
Telephone	+64 6 8433163
Fax	+64 6 8432958
Website	www.clarkproducts co.nz
Email	orders@clarkproducts.co.nz

#### Emergency telephone number

Association / Organisation	CHEMCALL (0800 CHEMCALL)
Emergency telephone numbers	0800 243 622
Other emergency telephone numbers	1800 243 622 (outside New Zealand)

## **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	3		1 = Low
Reactivity	0		3 = High
Chronic	0		4 = Extreme

Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 1A, Serious Eye Damage Category 1, Aspiration Hazard Category 2, Acute Vertebrate Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	6.1E (aspiration), 6.1E (oral), 8.2A, 8.3A, 9.3C	

#### Label elements

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DANGER

Hazard statement(s)

GHS label e

SIGNAL WORD

H303	May be harmful if swallowed.
H314	Causes severe skin burns and eye damage.

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H305	May be harmful if swallowed and enters airways	
H433	Harmful to terrestrial vertebrates	
Precautionary statement(s)	Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
Precautionary statement(s)	Response	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
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.	
Precautionary statement(s) Storage		
P405	Store locked up.	
Precautionary statement(s) Disposal		
P501	Dispose of contents/container in accordance with local regulations.	
SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS		

#### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
7732-18-5	60-90	water
8001-54-5	<1	benzalkonium chloride
68002-97-1	1-10	alcohols C10-16 ethoxylated

## **SECTION 4 FIRST AID MEASURES**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
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

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

Treat symptomatically.

- For acute or short term repeated exposures to ethylene glycol: Early treatment of ingestion is important. Ensure emesis is satisfactory.
- Fairy treatment of ingestion is important. Ensure emesis is satisfy the satis
- Apply sustained diuresis when possible with hypertonic mannitol.

haemodialysis is much superior to peritoneal dialysis.

- Proppy sustained didlesis when possible with hypertonic maininul.
   Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
   Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites,

## [Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures. Laitinen J., et al: Occupational & Environmental Medicine 1996; 53, 595-600

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.

Oxygen is given as indicated.

- The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- > Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

**STRIVE** 

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

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

In foam.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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#### ... ...

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> </ul>
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> </ul> Decomposes on heating and produces toxic fumes of: <ul> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>

## 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	<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> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>

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

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

- 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.
Other information	
Conditions for safe storag	e, including any incompatibilities
Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Avoid contact with copper, aluminium and their alloys.</li> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> </ul>

## 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
benzalkonium chloride	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)		0.91 mg/m3	10 mg/m3	60 mg/m3
Ingredient	Original IDLH Revised IDLH		I		
water	Not Available Not Available				
benzalkonium chloride	Not Available Not Available				
alcohols C10-16 ethoxylated	Not Available	Not Available			

#### Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. 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.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>
Body protection	See Other protection below
Other protection	Overalls.     P.V.C. apron.     Barrier cream.
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  $\ensuremath{\textit{computer-generated}}$  selection:

STRIVE (PERFUMED)

Material	СРІ
BUTYL	A
NEOPRENE	A
VITON	A
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. -

#### **Respiratory protection**

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 5 x ES	AK-AUS / Class 1 P2	-	AK-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	AK-2 P2	AK-PAPR-2 P2
up to 50 x ES	-	AK-3 P2	-
50+ x ES	-	Air-line**	-

## ^ - Full-face

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

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated

\* 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. area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Appearance	Clear blue liquid with a mild fragrance		
Physical state	Liquid	Relative density (Water = 1)	1.02
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	12-13	Decomposition temperature	Not Applicable
Melting point / freezing point (°C)	0	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	<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	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of product Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. The material has <b>NOT</b> 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	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) 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.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. One of the mechanisms of skin irritation caused by surfactants is considered to be denaturation of the proteins of skin. It has also been established that there is a connection between the potential of surfactants to denature protein in vitro and their effect on the skin. Nonionic surfactants do not carry any net charge and, therefore, they can only form hydrophobic bonds with proteins. For this reason, proteins are not deactivated by nonionic surfactants, and proteins with poor solubility are not solubilized by nonionic surfactants Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	If applied to the eyes, this material causes severe eye damage. Non-ionic surfactants can cause numbing of the cornea, which masks discomfort normally caused by other agents and leads to corneal injury. Irritation varies depending on the duration of contact, the nature and concentration of the surfactant.

Chronic	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Prolonged exposure to ethanol may cause damage to the liver and cause scarring. It may also worsen damage caused by other agents.					
		1				
STRIVE (PERFUMED)	TOXICITY	IRRITATION				
	Not Available	Not Available				
	TOXICITY	IRRITATION				
water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available				
	τοχιείτχ					
	1000000000000000000000000000000000000	Eve (human): 0	05 mg SEVERE			
benzalkonium chloride						
	Oral (rat) LD50: 240 mg/kg <sup>i-j</sup>	Eye (rabbit): 1m	g/24h SEVERE			
		Skin (human): 0	15 mg/72h mild			
	TOXICITY	IRRITATION				
	dermal (rat) LD50: 3300 mg/kg <sup>[2]</sup>	Eye (rabbit): 32/	110 moderate *			
alcohols C10-16 ethoxylated	Inhalation (rat) LC50: >1.6 mg/l/4h ** <sup>[2]</sup>	Skin (rabbit): 1.	5/8.0 slight *			
	Oral (rat) LD50: 7600 mg/kg <sup>[2]</sup>					
Legend:	1. Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical	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				
BENZALKONIUM CHLORIDE	Alkyldimethylbenzylammonium chlorides are in the list of dang ingestion", and "corrosive and very toxic to aquatic organisms possible sensitisation in those with pre-existing eczema. It doe	gerous substances of council directiv ". It can cause dose dependent skin ss not cause cancer, genetic defect,	e, classified as "harmful in contact with skin and on and eye irritation with possible deterioration of vision, ioetal or developmental abnormality.			
ALCOHOLS C10-16 ETHOXYLATED	Polyethers, for example, ethoxylated surfactants and polyethylene glycols, are highly susceptible towards air oxidation as the ether oxygens will stabilize intermediary radicals involved. Investigations of a chemically well-defined alcohol (pentaethylene glycol mono-n-dodecyl ether) ethoxylate, showed that polyethers form complex mixtures of oxidation products when exposed to air. Sensitization studies in guinea pigs revealed that the pure nonoxidized surfactant itself is nonsensitizing but that many of the investigated oxidation products are sensitizers. Two hydroperoxides were identified in the oxidation mixture, but only one (16-hydroperoxy-3,6,9,12,15-pentaoxaheptaosan-1-ol ) was stable enough to be isolated. 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. 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. Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic alkoxy acids. They may irritate the skin and the eyes. At high oral doses, they may cause depressed reflexes, flaccid muscle tone, breathing difficulty and coma. Death may result in experimental animal. The material may produce moderate eye irritation leading to 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,					
	volumes well above a reasonable intake level would have to or has ever been reported. Both laboratory and animal testing has shown that there is no reproductive or developmental effects were observed. Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic depressed reflexes, flaccid muscle tone, breathing difficulty an The material may produce moderate eye irritation leading to ir The material may cause skin irritation after prolonged or repeat scaling and thickening of the skin.	rough ingestion, inhalation, or contac cour to produce any toxic response. Iv evidence for alcohol ethoxylates (AE alkoxy acids. They may irritate the sl id coma. Death may result in experim filammation. Repeated or prolonged ited exposure and may produce on c	sumer products such as soaps, detergents, and other t with the skin or eyes. Studies of acute toxicity show that loreover, no fatal case of poisoning with alcohol ethoxylates s) causing genetic damage, mutations or cancer. No adverse in and the eyes. At high oral doses, they may cause lental animal. exposure to irritants may produce conjunctivitis. ontact skin redness, swelling, the production of vesicles,			
STRIVE (PERFUMED) & WATER	volumes well above a reasonable intake level would have to or has ever been reported. Both laboratory and animal testing has shown that there is no reproductive or developmental effects were observed. Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic depressed reflexes, flaccid muscle tone, breathing difficulty an The material may produce moderate eye irritation leading to ir The material may cause skin irritation after prolonged or repeat scaling and thickening of the skin. No significant acute toxicological data identified in literature s	rough ingestion, inhalation, or contac scur to produce any toxic response. N evidence for alcohol ethoxylates (AE alkoxy acids. They may irritate the sl id coma. Death may result in experim flammation. Repeated or prolonged ted exposure and may produce on c search.	sumer products such as soaps, detergents, and other t with the skin or eyes. Studies of acute toxicity show that loreover, no fatal case of poisoning with alcohol ethoxylates s) causing genetic damage, mutations or cancer. No adverse in and the eyes. At high oral doses, they may cause lental animal. exposure to irritants may produce conjunctivitis. ontact skin redness, swelling, the production of vesicles,			
STRIVE (PERFUMED) & WATER STRIVE (PERFUMED) & BENZALKONIUM CHLORIDE	volumes well above a reasonable intake level would have to or has ever been reported. Both laboratory and animal testing has shown that there is no reproductive or developmental effects were observed. Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic depressed reflexes, flaccid muscle tone, breathing difficulty an The material may produce moderate eye irritation leading to ir The material may cause skin irritation after prolonged or repea scaling and thickening of the skin. No significant acute toxicological data identified in literature s Asthma-like symptoms may continue for months or even years reactive airways dysfunction syndrome (RADS) which can oc of RADS include the absence of preceding respiratory disease to hours of a documented exposure to the irritant. A reversible on methacholine challenge testing and the lack of minimal lym of RADS.	rough ingestion, inhalation, or contac scur to produce any toxic response. M evidence for alcohol ethoxylates (AE alkoxy acids. They may irritate the sl d coma. Death may result in experim fifammation. Repeated or prolonged ted exposure and may produce on o search.	sumer products such as soaps, detergents, and other t with the skin or eyes. Studies of acute toxicity show that loreover, no fatal case of poisoning with alcohol ethoxylates s) causing genetic damage, mutations or cancer. No adverse in and the eyes. At high oral doses, they may cause lental animal. exposure to irritants may produce conjunctivitis. ontact skin redness, swelling, the production of vesicles, s. This may be due to a non-allergenic condition known as of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes e presence of moderate to severe bronchial hyperreactivity ophilia, have also been included in the criteria for diagnosis			
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✓ – Data available to make classification

## 🚫 – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
benzalkonium chloride	LC50	96	Fish	0.32mg/L	4

benzalkonium chloride	EC50	48	Crustacea	0.018mg/L	4
benzalkonium chloride	EC50	96	Algae or other aquatic plants	0.056mg/L	4
benzalkonium chloride	EC50	24	Algae or other aquatic plants	0.0013mg/L	4
benzalkonium chloride	NOEC	1	Algae or other aquatic plants	0.0025mg/L	4
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				

#### DO NOT discharge into sewer or waterways

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)

#### Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)

### SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Recycle wherever possible.</li> <li>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.</li> <li>Treat and neutralise at an approved treatment plant.</li> <li>Treatment should involve: Neutralisation with suitable dilute acid followed 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).</li> </ul>

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

## **SECTION 14 TRANSPORT INFORMATION**

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

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

This substance is to be managed using the conditions specified in an applicable Group Standard	
HSR Number	Group Standard
Not Applicable	Not Applicable
WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Not Applicable	

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

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

## ALCOHOLS C10-16 ETHOXYLATED(68002-97-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

#### Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below

#### are present.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
Not Applicable	Not Applicable	Not Applicable

#### Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities
8.2A	Any quantity

Refer Group Standards for further information

#### **Tracking Requirements**

Not Applicable

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (water; alcohols C10-16 ethoxylated; benzalkonium chloride)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (water; alcohols C10-16 ethoxylated; benzalkonium chloride)
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

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 This document is copyright.

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