

Chemwatch: 23-5749 Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 4

Issue Date: 27/06/2017 Print Date: 05/03/2018 S.GHS.AUS.EN

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

# Product Identifier

Product name	Chemeco Chlorinated Detergent			
Synonyms	Not Available			
Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains sodium hydroxide)			
Other means of identification	Not Available			
Relevant identified uses of the substance or mixture and uses advised against				

Relevant identified uses Self foaming cleaner sanitiser especially for food industry use.

# Details of the supplier of the safety data sheet

Registered company name	Chemeco (Aust)
Address	17 Yale Drive Epping VIC 3076
Telephone	+61 3 9408 8699
Fax	+61 3 9408 8399
Website	www.chemeco.com.au
Email	info@chemeco.com.au

#### Emergency telephone number

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

#### **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

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

Poisons Schedule	S6
Classification <sup>[1]</sup>	Metal Corrosion Category 1, Skin Corrosion/Irritation Category 1A, Serious Eye Damage Category 1, Acute Aquatic Hazard Category 2
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)	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H401	Toxic to aquatic life
AUH031	Contact with acid liberates toxic gas

#### Precautionary statement(s) Prevention

P260	t breathe dust/fume/gas/mist/vapours/spray.			
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P234	Keep only in original container.			
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.

#### Precautionary statement(s) Storage

P405 Store locked up.

#### Precautionary statement(s) Disposal

DE04

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
1310-73-2	<10	sodium hydroxide
7681-52-9	<10	sodium hypochlorite
1300-72-7	<10	sodium xylenesulfonate
1643-20-5	<10	lauryldimethylamine oxide
9004-82-4	<10	sodium lauryl ether sulfate
7732-18-5	>60	water
Not Available	NotSpec.	Available chlorine 5.5%

### SECTION 4 FIRST AID MEASURES

#### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: <ul> <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 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.
- 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. 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

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).

#### Special hazards arising from the substrate or mixture

 Fire Incompatibility
 Reacts with aluminium / zinc producing flammable, explosive hydrogen gas

 Advice for firefighters
 + Alert Fire Brigade and tell them location and nature of hazard.

 Fire Fighting
 + Alert Fire Brigade and tell them location and nature of hazard.

 • Wear full body protective clothing with breathing apparatus.
 + Prevent, by any means available, spillage from entering drains or water course.

 • Use fire fighting procedures suitable for surrounding area.
 + Non combustible.

 • Non combustible.
 + Non combustible.

 • Non combustible.
 + Non combustible.

 • Lexansion or decomposition on heating may lead to violent rupture of containers.

 • Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).

Decomposes on heating and produces toxic fumes of:, carbon dioxide (CO2), chlorides, nitrogen oxides (NOx), sulfur oxides (SOx)May emit corrosive fumes.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<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>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>

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

#### SECTION 7 HANDLING AND STORAGE

autions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

	Polyethylene or polypropylene container.
Suitable container	Packing as recommended by manufacture

Packing as recommended by manufacturer.
 Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Contact with acids produces toxic fumes of chlorine

Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	٦	TWA		STEL		Peak		Notes
Australia Exposure Standards	sodium hydroxide	Sodium hydroxide	1	Not Available		Not Available		2 mg/m3		Not Available
EMERGENCY LIMITS										
Ingredient	Material name			TEEL-1		TEEL-2			TEEL-3	
sodium hydroxide	Sodium hydroxide			Not Available		Not Available		Not	Available	
sodium hypochlorite	Sodium hypochlorite pentahydrate			4.6 mg/m3 51 mg/m3			51 mg/m3		290	mg/m3
sodium hypochlorite	Sodium hypochlorite			2 mg/m3 20 mg/m3			20 mg/m3	630 mg/m3		mg/m3
Ingredient	Original IDLH				Revised IDLH					
sodium hydroxide	250 mg/m3	250 mg/m3			10 mg/m3					
sodium hypochlorite	Not Available	Not Available			Not Available					
sodium xylenesulfonate	Not Available	Not Available			Not Available					
lauryldimethylamine oxide	Not Available	Not Available			Not Available					
sodium lauryl ether sulfate	Not Available				Not Available					
water	Not Available				Not Available					
Available chlorine 5.5%	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 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.</li> <li>Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted.</li> <li>Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.</li> <li>Alternatively a gas mask may replace splash goggles and face shields.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Elbow length PVC gloves</li> <li>When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>PVC Apron.</li> <li>PVC protective suit may be required if exposure severe.</li> <li>Eyewash unit.</li> </ul>
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:

NV Chemicals Chlorinated Detergent

Material	CPI
BUTYL	С
	C

BUTYL	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С

#### **Respiratory protection**

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	ABK-AUS P3	-	ABK-PAPR-AUS / Class 1 P3
up to 50 x ES	-	ABK-AUS / Class 1 P3	-
up to 100 x ES	-	ABK-2 P3	ABK-PAPR-2 P3 ^

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

### **Chemeco Chlorinated Detergent**

^ - Full-face

NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON	С
VITON/CHLOROBUTYL	С
##sodium	hypochlorite

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

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

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

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Clear pale amber highly alkaline liquid with chlorine odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.12
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature	Not Available
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%)	12.5-13.5
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.

Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane.

	The use of a quantity of material in an unventilated or conf	fined space may result in increased exposure and an irritating atmosphere developing.	
Induction	Before starting consider control of exposure by mechanica		
Ingestion	an inability to speak or swallow. Both the oesophagus and stor	mach may experience burning pain; vomiting and diarrhoea may follow.	
Skin Contact	The material can produce severe chemical burns following direct contact with the skin. Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction may be deep. Skin contact will result in rapid drying, bleaching, leading to chemical burns on prolonged contact		
Eye		and burns. There may be swelling, epithelium destruction, clouding of the cornea and re cases can be prolonged with complications such as persistent swelling, scarring, ids glued to the eyeball and blindness.	
Chronic	Repeated or prolonged exposure to corrosives may result (rarely) of the jaw. Bronchial irritation, with cough, and free	in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis quent attacks of bronchial pneumonia may ensue.	
NV Chemicals Chlorinated	TOXICITY	IRRITATION	
Detergent	Not Available	Not Available	
	тохісіту	IRRITATION	
	Oral (rabbit) LD50: 325 mg/kg <sup>[1]</sup>	Eye (rabbit): 0.05 mg/24h SEVERE	
sodium hydroxide		Eye (rabbit):1 mg/24h SEVERE	
		Eye (rabbit):1 mg/30s rinsed-SEVERE	
		Skin (rabbit): 500 mg/24h SEVERE	
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: >10000 mg/kg <sup>[1]</sup>		
sodium hypochlorite		Eye (rabbit): 10 mg - moderate	
	_Oral (rat) LD50: >237 mg/kg <sup>[1]</sup>	Eye (rabbit): 100 mg - moderate	
		Skin (rabbit): 500 mg/24h-moderate	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
sodium xylenesulfonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
	Oral (rat) LD50: >3000 mg/kg <sup>[1]</sup>		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
lauryldimethylamine oxide	Oral (mouse) LD50: 2700 mg/kg <sup>[2]</sup>	Eye (rabbit): 50 ug/24h - SEVERE	
		Skin (rabbit): 2 mg/24h - SEVERE	
	тохісіту	IRRITATION	
sodium lauryl ether sulfate	Oral (rat) LD50: 1600 mg/kg <sup>[2]</sup>	Skin (rabbit):25 mg/24 hr moderate	
water		IRRITATION	
	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substan specified data extracted from RTECS - Register of Toxic I	nces - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise Effect of chemical Substances	
SODIUM HYPOCHLORITE	Hypochlorite salts are classified by IARC as Group 3: <b>NO</b> <sup>2</sup> Evidence of carcinogenicity may be inadequate or limited Hypochlorite salts are extremely corrosive and can cause observed in mice, when applied to their skin. as sodium hypochlorite pentahydrate		
SODIUM XYLENESULFONATE	for alkyl sulfates; alkane sulfonates and alpha-olefin sulfor Most chemicals of this category are not defined subs sulfonates are mixtures of alkene sulfonate and hydroxyl or hydroxyl group, located at a position in the vicinity of the Common physical and/or biological pathways result in st responsible for similar environmental behavior and essent <b>Acute toxicity</b> : These substances are well absorbed after Toxicological data is available and well documented for re ammounium and calcium salts). These data show that hydrox	tances, but mixtures of homologues with different alkyl chain lengths. Alpha-olefin alkane sulfonates with the sulfonate group in the terminal position and the double bond e sulfonate group. ructurally similar breakdown products, and are, together with the surfactant properties tially identical hazard profiles with regard to human health.	
LAURYLDIMETHYLAMINE OXIDE		ntake. They produced no mortality or skin sensitization on exposure but caused reversible ataracts. Repeat dosing showed no abnormal changes except for diarrhoea and weight loss.	
GAIDE	irritation of the eyes, skin and airways. They may also cause cataracts. Repeat dosing showed no abnormal changes except for diarrhoea and weight loss.		

SODIUM LAURYL ETHER SULFATE \* [CESIO] SODIUM HYDROXIDE & The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

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

LAURYLDIMETHYLAMINE OXIDE

SODIUM HYDROXIDE & LAURYLDIMETHYLAMINE OXIDE	The material may cause severe 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. Repeated exposures may produce severe ulceration.		
SODIUM HYDROXIDE & SODIUM HYPOCHLORITE & SODIUM XYLENESULFONATE & LAURYLDIMETHYLAMINE OXIDE	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.		
SODIUM HYPOCHLORITE & SODIUM LAURYL ETHER SULFATE	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
SODIUM XYLENESULFONATE & SODIUM LAURYL ETHER SULFATE & WATER	No significant acute toxicological data identified in literature search.		
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	¥	Reproductivity	0
Serious Eye Damage/Irritation	*	STOT - Single Exposure	$\otimes$
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	S Aspiration Hazard		

Legend:

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

🛇 – Data Not Available to make classification

# SECTION 12 ECOLOGICAL INFORMATION

# Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium hydroxide	EC50	384	Crustacea	27901.643mg/L	3
sodium hydroxide	EC50	96	Algae or other aquatic plants	1034.10043mg/L	3
sodium hydroxide	LC50	96	Fish	4.16158mg/L	3
sodium hydroxide	NOEC	96	Fish	56mg/L	4
sodium hydroxide	EC50	48	Crustacea	40.4mg/L	2
sodium hypochlorite	EC50	0.08	Crustacea	0.002mg/L	4
sodium hypochlorite	LC50	96	Fish	0.032mg/L	4
sodium hypochlorite	EC50	48	Crustacea	0.026mg/L	2
sodium hypochlorite	EC50	72	Algae or other aquatic plants	0.0183mg/L	2
sodium hypochlorite	NOEC	72	Algae or other aquatic plants	0.0054mg/L	2
sodium xylenesulfonate	LC50	96	Fish	>1000mg/L	2
sodium xylenesulfonate	EC50	48	Crustacea	>40.3mg/L	2
sodium xylenesulfonate	EC50	48	Crustacea	>=40.3mg/L	2
sodium xylenesulfonate	EC50	96	Algae or other aquatic plants	>=230mg/L	2
sodium xylenesulfonate	NOEC	96	Algae or other aquatic plants	31mg/L	2
lauryldimethylamine oxide	LC50	96	Fish	1.235mg/L	3
lauryldimethylamine oxide	EC50	48	Crustacea	2.9mg/L	2
lauryldimethylamine oxide	EC50	72	Algae or other aquatic plants	0.0154mg/L	2
lauryldimethylamine oxide	EC50	72	Algae or other aquatic plants	0.024mg/L	2
lauryldimethylamine oxide	NOEC	72	Algae or other aquatic plants	0.003mg/L	2
sodium lauryl ether sulfate	NOEC	48	Fish	0.26mg/L	5
water	EC50	384	Crustacea	199.179mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	LC50	96	Fish	897.520mg/L	3

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

# DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
lauryldimethylamine oxide	LOW	LOW

water LOW

LOW (KOC = 18660)

LOW (KOC = 14.3)

LOW

#### **Bioaccumulative potential**

lauryldimethylamine oxide

water

•	
Ingredient	Bioaccumulation
sodium hydroxide	LOW (LogKOW = -3.8796)
lauryldimethylamine oxide	HIGH (LogKOW = 4.673)
water	LOW (LogKOW = -1.38)
Mobility in soil	
Ingredient	Mobility
sodium hydroxide	LOW (KOC = 14.3)

## SECTION 13 DISPOSAL CONSIDERATIONS

# Waste treatment methods Product / Packaging disposa Image: Display treatment space of the product / Packaging disposa Image: Display treatment space of the product / Packaging disposa Image: Display treatment space of the product / Packaging disposa Image: Display treatment space of the product / Packaging disposa Image: Display treatment space of the product / Packaging disposa Image: Display treatment space of the product / Packaging display treatment space of the product of the p

# **SECTION 14 TRANSPORT INFORMATION**

Marine Pollutant

#### Labels Required

CORROSIVE 8

2X

# HAZCHEM

Land transport (ADG)			
UN number	3266		
UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains sodium hydroxide)		
Transport hazard class(es)	Class 8 Subrisk Not Applicable		
Packing group	11		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions 274 Limited quantity 1 L		

#### Air transport (ICAO-IATA / DGR)

UN number	3266				
UN proper shipping name	Corrosive liquid, basic, inorganic, n.o.s. * (contains sodium hydroxide)				
Transport hazard class(es)	ICAO/IATA Class 8 ICAO / IATA Subrisk Not Applicable ERG Code 8L				
Packing group	н				
Environmental hazard	Not Applicable				
Special precautions for user	Special provisions	A3A803			
	Cargo Only Packing Instructions	855			
	Cargo Only Maximum Qty / Pack	30 L			
	Passenger and Cargo Packing Instructions	851			
	Passenger and Cargo Maximum Qty / Pack	1 L			
	Passenger and Cargo Limited Quantity Packing Instructions	Y840			
	Passenger and Cargo Limited Maximum Qty / Pack	0.5 L			

## Sea transport (IMDG-Code / GGVSee)

	, BASIC, INORGANIC, N.O.S. (contains sodium hydroxide)			
IMDG Class     8       IMDG Subrisk     Not Applicable				
I				
Not Applicable				
S Number cial provisions	F-A, S-B 274 1 L			
	pplicable S Number			

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# SECTION 15 REGULATORY INFORMATION

SODIUM HYDROXIDE(131	10-73-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS		
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)	
Australia Hazardous Subst	tances Information System - Consolidated Lists		
SODIUM HYPOCHLORIT	E(7681-52-9) IS FOUND ON THE FOLLOWING REGULATORY LIS	TS	
Australia Hazardous Substances Information System - Consolidated Lists		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	
Australia Inventory of Chemical Substances (AICS)			
SODIUM XYLENESULFO	NATE(1300-72-7) IS FOUND ON THE FOLLOWING REGULATOR	Y LISTS	
Australia Hazardous Substances Information System - Consolidated Lists		Australia Inventory of Chemical Substances (AICS)	
LAURYLDIMETHYLAMIN	IE OXIDE(1643-20-5) IS FOUND ON THE FOLLOWING REGULATO	DRY LISTS	
Australia Inventory of Cher			
		TODY 11070	
	R SULFATE(9004-82-4) IS FOUND ON THE FOLLOWING REGULA		
Australia Hazardous Subst	tances Information System - Consolidated Lists A	Australia Inventory of Chemical Substances (AICS)	
WATER(7732-18-5) IS FO	OUND ON THE FOLLOWING REGULATORY LISTS		
Australia Inventory of Cher	mical Substances (AICS)		
National Inventory	Status		
Australia - AICS	Υ		
Canada - DSL	Y		
Canada - NDSL	N (water; lauryldimethylamine oxide; sodium xylenesulfonate; sodium lauryl ether sulfate; sodium hypochlorite; sodium hydroxide)		
China - IECSC	Υ		
Europe - EINEC / ELINCS / NLP	Y		
Japan - ENCS	N (water)		
Korea - KECI	Y		
New Zealand - NZIoC	Y		

#### **SECTION 16 OTHER INFORMATION**

Y

#### Other information

USA - TSCA

Legend:

### Ingredients with multiple cas numbers

Name	CAS No		
sodium hydroxide	1310-73-2, 12200-64-5		
sodium hypochlorite	7681-52-9, 10022-70-5		
sodium xylenesulfonate	1300-72-7, 30587-85-0		
sodium lauryl ether sulfate	9004-82-4, 3088-31-1, 68891-38-3, 1335-72-4, 68585-34-2, 91648-56-5, 51286-51-2, 1335-73-5, 11121-04-3, 12627-22-4, 12627-23-5, 32057-62-8, 37325-23-8, 39390-84-6, 39450-08-3, 42504-27-8, 51059-21-3, 53663-56-2, 56572-89-5, 57762-43-3, 57762-59-1, 66747-17-9, 73651-68-0, 74349-47-6, 76724-02-2, 95508-27-3, 98112-64-2, 113096-26-7, 115284-60-1, 116958-77-1		

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)

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

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 LOAEL: Lowest Observed Adverse Effect Level LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

