# Northfork Laundry Liquid Antibacterial ACCO Brands Australia Pty Ltd Version No: 2.1

Safety Data Sheet according to WHS Regulations and ADG requirements

Issue Date: 28/04/2021

S.GHS.AUS.EN

## SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier		
Product name	Northfork Laundry Liquid Antibacterial	
Chemical Name	Not Applicable	
Synonyms	Not Available	
Other means of identification	5L - 636070700	

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

Relevant identified uses	Detergent for machine	washing clothes
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### Details of the supplier of the safety data sheet

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

#### Emergency telephone number

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Association / Organisation	Poisons Information Line	
Emergency telephone numbers	13 11 26	
Other emergency telephone numbers	Not Available	

### **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	Not Applicable	
Classification <sup>[1]</sup>	Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Chronic Aquatic Hazard Category 3, Acute Aquatic Hazard Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)	

Signal word Danger

Hazard statement(s)

H318	Causes serious eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H412	Harmful to aquatic life with long lasting effects.	
H401	Toxic to aquatic life.	

### Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read carefully and follow all instructions.	

### Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P261	P261 Avoid breathing mist/vapours/spray.	
P273	P273 Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

#### Precautionary statement(s) Response

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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/doctor/physician/first aider.	
P302+P352 IF ON SKIN: Wash with plenty of water.	
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.

### Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

## **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
Not Available	>60	Water
1310-73-2	<10	sodium hydroxide
7758-29-4	<10	sodium tripolyphosphate
1300-72-7	<10	sodium xylenesulfonate
57-13-6	<10	шеа
61789-40-0	<10	cocamidopropylbetaine
9004-82-4	<10	sodium lauryl ether sulfate
64-17-5	<10	ethanol
68131-39-5	<10	alcohols C12-15 ethoxylated
12224-08-7	<10	C.I. Fluorescent Brightener 90
2372-82-9	<10	N-(3-aminopropyl)-N-dodecyl-1,3-propanediamine
68439-57-6	<10	sodium C14-16-olefin sulfonate
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

### **SECTION 4 First aid measures**

### 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	If skin contact occurs: <ul> <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       If swallowed do NOT induce vomiting.         Ingestion       If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and         Observe the patient carefully.       Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.         Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.         Seek medical advice.			

Treat symptomatically.

### **SECTION 5 Firefighting measures**

### Extinguishing media

Water spray or fog.

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	<ul> <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> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</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> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>sulfur oxides (SOx)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

### **SECTION 6 Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Remove all ignition sources.</li> <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	<ul> <li>Environmental hazard - contain spillage.</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 full body protective clothing with breathing apparatus.</li> <li>Prevent, by all means available, spillage from entering drains or water courses.</li> <li>Consider evacuation (or protect in place).</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> </ul>

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. Safe handling Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked.

	<ul> <li>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</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>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Secondary amines form salts with strong acids and can be oxidized to the corresponding nitrone using hydrogen peroxide, catalyzed by selenium dioxide <ul> <li>Avoid reaction with oxidising agents</li> </ul>

# SECTION 8 Exposure controls / personal protection

### **Control parameters**

## Occupational Exposure Limits (OEL)

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	sodium hydroxide	Sodium hydroxide	Not Available	Not Available	2 mg/m3	Not Available
Australia Exposure Standards	ethanol	Ethyl alcohol	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available

Emergency Limits				
Ingredient	TEEL-1	TEEL-2		TEEL-3
sodium hydroxide	Not Available	Not Available		Not Available
sodium tripolyphosphate	0.61 mg/m3	6.8 mg/m3		620 mg/m3
urea	30 mg/m3	280 mg/m3		1,700 mg/m3
ethanol	Not Available	Not Available		15000* ppm
Ingredient	Original IDLH		Revised IDLH	

sodium hydroxide	10 mg/m3	Not Available
sodium tripolyphosphate	Not Available	Not Available
sodium xylenesulfonate	Not Available	Not Available
urea	Not Available	Not Available
cocamidopropylbetaine	Not Available	Not Available
sodium lauryl ether sulfate	Not Available	Not Available
ethanol	3,300 ppm	Not Available
alcohols C12-15 ethoxylated	Not Available	Not Available
C.I. Fluorescent Brightener 90	Not Available	Not Available
N-(3-aminopropyl)-N-dodecyl- 1,3-propanediamine	Not Available	Not Available
sodium C14-16-olefin sulfonate	Not Available	Not Available

Ingredient	Occupational Exposure Band Rating	Rating Occupational Exposure Band Limit		
sodium tripolyphosphate	E	≤ 0.01 mg/m³		
sodium xylenesulfonate	E	≤ 0.01 mg/m³		
urea	E	≤ 0.01 mg/m³		
cocamidopropylbetaine	E	≤ 0.1 ppm		
sodium lauryl ether sulfate	E	≤ 0.01 mg/m³		
alcohols C12-15 ethoxylated	E	≤ 0.1 ppm		
N-(3-aminopropyl)-N-dodecyl- 1,3-propanediamine	E	≤ 0.1 ppm		
sodium C14-16-olefin sulfonate	E	≤ 0.01 mg/m³		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the			

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

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. 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.
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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.</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> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</li> <li>Suitability and durability of glove type is dependent on usage.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]</li> <li>Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]</li> <li>Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.</li> <li>Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.</li> <li>Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.</li> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

### 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:

Laundry Liquid Antibacterial

Material	CPI
BUTYL	А
NEOPRENE	А
NITRILE	А
NITRILE+PVC	А
PE/EVAL/PE	А
PVC	В
NAT+NEOPR+NITRILE	С

### **Respiratory protection**

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

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	Air-line*	A-2	A-PAPR-2 ^
up to 10 x ES	-	A-3	-
10+ x ES	-	Air-line**	-

\* - Continuous Flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

 $\begin{array}{l} \mathsf{A}(\mathsf{All classes}) = \mathsf{Organic vapours, B AUS or B1} = \mathsf{Acid gasses, B2} = \mathsf{Acid gas or} \\ \mathsf{hydrogen cyanide}(\mathsf{HCN}), \mathsf{B3} = \mathsf{Acid gas or hydrogen cyanide}(\mathsf{HCN}), \mathsf{E} = \mathsf{Sulfur} \\ \mathsf{dioxide}(\mathsf{SO2}), \mathsf{G} = \mathsf{Agricultural chemicals, K} = \mathsf{Ammonia}(\mathsf{NH3}), \mathsf{Hg} = \mathsf{Mercury, NO} = \\ \end{array}$ 

NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
PE	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON/CHLOROBUTYL	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

 $\ensuremath{\text{NOTE}}$ : 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

Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- 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 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.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Appearance	Not Available		
Physical state	Liquid	Relative density (Water= 1)	1.05-1.10
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	7.0-9.0	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	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**

Inh

#### Information on toxicological effects

haled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
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Ingestion	Accidental ingestion of the material may be damaging to	the health of the individual.		
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. Anionic surfactants can cause skin redness and pain, as well as a rash. Cracking, scaling and blistering can occur. 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. Direct eye contact with some anionic surfactants in high concentration can cause severe damage to the cornea. Low concentrations can cause discomfort, excess blood flow, and corneal clouding and swelling. Recovery may take several days.			
Chronic	Skin contact with the material is more likely to cause a se There is sufficient evidence to suggest that this material of Secondary amines may react with nitrites to form potentia Prolonged or repeated skin contact may cause degreasin	ally carcinogenic N-nitrosamines.		
	τοχιςιτγ	IRRITATION		
Laundry Liquid Antibacterial	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: 1350 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.05 mg/24h SEVERE		
	Oral(Rabbit) LD50; 325 mg/kg <sup>[1]</sup>	Eye (rabbit):1 mg/24h SEVERE		
sodium hydroxide		Eye (rabbit):1 mg/30s rinsed-SEVERE		
		Eye: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin (rabbit): 500 mg/24h SEVERE		
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
	τοχιςιτγ	IRRITATION		
	Dermal (rabbit) LD50: >3160 mg/kg <sup>[2]</sup>	Not Available		
sodium tripolyphosphate	Inhalation(Rat) LC50; >0.39 mg/l4h <sup>[1]</sup>			
	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>			
	TOXICITY	IRRITATION		
sodium xylenesulfonate	Oral(Rat) LD50; >10 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	dermal (rat) LD50: 8200 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
urea	Oral(Rat) LD50; ~14 mg/kg <sup>[2]</sup>	Skin (human): 22 mg/3 d (I)- mild		
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
	тохісіту	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>		
cocamidopropylbetaine	Oral(Rat) LD50; >1800 mg/kg <sup>[1]</sup>	Eye: primary irritant *		
		Skin: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin: primary irritant *		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Oral(Rat) LD50; 1600 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>		
sodium lauryl ether sulfate		Skin (rabbit):25 mg/24 hr moderate		
		Skin: adverse effect observed (irritating) <sup>[1]</sup>		
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup>	Eye (rabbit): 500 mg SEVERE		
	Inhalation(Mouse) LC50; 39 mg/L4h <sup>[2]</sup>	Eye (rabbit):100mg/24hr-moderate		
ethanol	Oral(Rat) LD50; >7692 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin (rabbit):20 mg/24hr-moderate		
		Skin (rabbit):400 mg (open)-mild		
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		

Continued...

	ΤΟΧΙΟΙΤΥ	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
alcohols C12-15 ethoxylated	Inhalation(Rat) LC50; >1.6 mg/l4h <sup>[1]</sup>	Eye: SEVERE *		
	Oral(Rat) LD50; 1600 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
		Skin: slight		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
C.I. Fluorescent Brightener 90	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
N-(3-aminopropyl)-N-dodecyl-	dermal (rat) LD50: >600 mg/kg <sup>[1]</sup>	Skin (rabbit): Corrosive *		
1,3-propanediamine	Oral(Rat) LD50; >25<200 mg/kg <sup>[1]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
	тохісіту	IRRITATION		
	Dermal (rabbit) LD50: 578 mg/kg <sup>[1]</sup>	Eye: irritant **		
sodium C14-16-olefin sulfonate	Inhalation(Rat) LC50; >51.5 mg/l4h <sup>[1]</sup>	Skin: irritant **		
	Oral(Rat) LD50; >2000 mg/kg <sup>[2]</sup>			
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute to specified data extracted from RTECS - Register of Toxic Effect of chem.</li> </ol>			
SODIUM HYDROXIDE	The material may cause severe skin irritation after prolonged or repeate production of vesicles, scaling and thickening of the skin. Repeated exp			
SODIUM XYLENESULFONATE	Toxicological data is available and well documented for representative toluene, xylene and cumene sulfonates (including sodium, potassium, ammounium and calcium salts). These data show that hydrotropes have low toxicity for all routes, do not cause genetic damage, show no evidence of causing cancer in long-term skin studies, and have not caused birth defects, developmental defects or reduced fertility.			
UREA	For urea: Urea is used in ointments and creams to treat dry skin. Long-term follow and is virtually free from side effects. It is usually tolerated well, althougl (60-90 grams/day). There is the possibility that infection of H. pylori in th generation of ammonia. Acute toxicity: Animal testing shows that the acute toxicity of urea is low Repeated dose toxicity: No well-conducted repeated dose toxicity studie toxicity. Reproductive and developmental toxicity: No adequate data exists rega Genetic toxicity: Urea has been negative in several appropriately condu it causes chromosomal aberrations only at concentrations much higher <b>NOTE:</b> Substance has been shown to be mutagenic in at least one assa cellular DNA.	h diarrhea is sometimes reported after ingestion of very large amounts the human stomach may aggravate local effects by urea because of the se were located. Tests involving the skin on animals suggested low rding the reproductive/developmental toxicity of urea. cted tests on bacteria to assess mutation-causing potential. In mammals, than the physiological range.		
COCAMIDOPROPYLBETAINE	* [Van Waters and Rogers] ** [Canada Colors and Chemicals Ltd.] Toxicokinetics, metabolism and distribution. Absorption of the chemical across: dermal and gastrointestinal membranes is possible based on the relatively low molecular weight of the chemical (500 Da) and given that it is a surfactant (EC, 2003). Acute toxicity. Acute oral toxicity studies in rats and mice indicated that the LD50 values of the chemical (at 30-35.61% concentration) ranged from 1800 mg/kg bw (male rats) up to 5000 mg/kg bw, with mortalities noted in most studies (CIR, 2010). Of note is an acute oral toxicity study conducted in Sprague-Dawley rats (5/sex) at a single dose of 1800 mg/kg bw (formulation containing 35.61% of the chemical), where no males but all five females died. Overall, the data suggests that mortality occurs following oral administration of the chemical and that it may be an acute oral toxicant. Therefore, based on these data the chemical may be harmful if swallowed. An acute dermal toxicity study in rats was conducted using 2000 mg/kg bw of a 31% formulation of the chemical [CIR, 2010). Irritation was observed, but there were no clinical signs of systemic toxicity or mortalities. The lack of effects in this study suggests that the chemical has irritant properties. The studies were, in-general, conducted under occlusive conditions, with exposure times of up to 24 hours (7.5-10%). Based on the information available, the chemical i likely to be a skin irritatin. Eye irritation studies with the chemical is classified with the risk phrase R36: Irritating to eyes, however, based on studies conducted on the chemical it may be a severe eye intrus. Sensitisation. The chemical in animal studies. Positive results were reported in an LLNA study (an EC3 value was not reported). In addition, positive results were obtained in two guinea pig maximisation studies conducted by a single laboratory, the first at 3% induction and 3% challenge, and the second at 0.15% induction and 1% challenge. In addition, no sensitisation in a guine			

cannot be made on the skin sensitisation potential of the chemical. The available information suggests that skin sensitisation is possible. Although there are some inconsistencies in the results reported for studies conducted on the chemical, the scientific data points towards the positive findings being caused by impurities, in particular DMAPA and amidopropyl dimethylamines, which are present in the chemical at low concentrations. Repeated Dose Toxicity. In a 28-day repeated dose oral toxicity study, rats were administered a 30.6% solution of the chemical at 0, 100, 500 or 1000 mg/kg bw/day. Inflammation of the non-glandular stomach was noted in animals of the high-dose group, although this effect was attributed to the irritant properties of the test material. Mortality was also observed in this study at all treatment levels but there was no dose-response relationship . In another 28-day repeated dose oral toxicity study, rats were administered a solution containing the chemical

	<ul> <li>(concentration not stated) at 0, 250, 500 or 1000 mg/kg bw/day. The NOEL was reported as 500 mg/kg bw/day, which appears to be based on non-systemic irritant effects on the non-glandular stomach. No mortalities were observed in a 90-day repeated dose oral toxicity study, rats were administered a solution containing the chemical (concentration not stated) at 0, 250, 500 or 1000 mg/kg bw/day. There were no mortalities and the noted effects are isolated to the stomach region and appear to be irritant in nature. The NOEL established by the study authors was 250 mg/kg bw/day, based on these effects. Mutagenicity. The chemical was not mutagenic in numerous bacterial reverse mutation assays. Negative results were also obtained for the chemical in a mouse lymphoma test and a micronucleus test in mice. Carcinogenicity, No signs of carcinogenicity were noted in a 20 month dermal study in mice (3 applications/week) for a hair dye formulation containing the chemical at a concentration of 0.09% The formation of nitrosamines is possible. Secondary amides (and the identified impurities) may serve as substrates for N-nitrosation, therefore formulation onthe oserveral fits acid amidopropyl dimethylamines were observed in patients that were reported to have allergic contact dermatitis to a baby lotion that contained 0.3% oleamidopropyl dimethylamines.</li> <li>Stearamidopropyl dimethylamine and 4.3% had relevant reactions to cocamidopropyl dimethylamine.</li> <li>Several cases of allergic contact dermatitis were reported in patients from the Netherlands that had used a particular type of body lotion that contained oleamidopropyl dimethylamine.</li> <li>In 12 patients tested with their personal cosmetics, containing the fatty acid amidopropyl dimethylamine; al concentrations as low as 0.05%. The presence of DMAPA, the reactant used in producing fatty acid amidopropyl dimethylamines) at concentrations as low as 0.05%. The presence of DMAPA, the reactant used in producing fatty acid amidopropyl dimethylamin</li></ul>
SODIUM LAURYL ETHER SULFATE	* [CESIO] Alcohol ethoxysulfates (AES) are of low acute toxicity. Neat AES are irritant to the skin and eyes.
ALCOHOLS C12-15 ETHOXYLATED	Humans 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 swallowing, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that relatively high volumes would have to occur to produce any toxic response. No death due to poisoning with alcohol ethoxylates has ever been reported. Studies show that alcohol ethoxylates have low toxicity through swallowing and skin contact. Animal studies show these chemicals may produce gastrointestinal irritation, stomach ulcers, hair standing up, diarrhea and lethargy. Slight to severe irritation occurred when undiluted alcohol ethoxylates were applied to the skin and eyes of animals. These chemicals show no indication of genetic toxicity or potential to cause mutations and cancers. Toxicity is thought to be substantially lower than that of nonylphenol ethoxylates. Some of the oxidation products of this group of substances may have sensitizing properties. As they cause less irritation, nonionic surfactants are often preferred to ionic surfactants in topical products. 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. However, repeated exposure may cause dose dependent damage to the kidneys as well as reproductive and developmental defects. for Tergitol 25-L-9: Neodol 25-7 *Shell Canada ** Huntsman (for Teric 12A9)
C.I. FLUORESCENT BRIGHTENER 90	For stilbene fluorescent brighteners: These substances have very low toxicity and are well tolerated. Lethal doses are very high. There are no effects on reproduction, gene mutation and ability to cause cancer.
N-(3-AMINOPROPYL)- N-DODECYL- 1,3-PROPANEDIAMINE	FND ether amines and FND amines are very similar in structure (length of chain or degree of saturation), function and toxicity. Acute exposure to FND ether amines by oral, dermal and inhalation may produce moderate to slight toxicity but repeated skin contact can be highly irritating. However, exposure did not produce any organ-specific toxicity, genetic, reproductive or developmental defect same as in FND amines. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to initiants may produce conjunctivitis. The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function. For alkyl polyamines: Cluster consists of two terminal primary and at least one secondary amine groups and are derivatives of low molecular weight ethylenediamine, propylenediamine, proylenediamine, toxicity depends on route of exposure. Cluster members have been shown to cause skin irritation or sensitisation, eye irritation and genetic defects, but have not been shown to cause cancer. Overexposure to most of these materials may cause adverse health effects. May amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, nausea, faintness, anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and swelling of the face, which are usually transient. There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing. Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose, coughing, difficulty in breaching and chest pain. Chronic exposure is ensibilation on the uses some eamines may result in dramation of the bronchi and lungs, and possible ung damage. Repeated and/or prolonged exposure to

SODIUM C14-16-OLEFIN SULFONATE	Alpha-olefine sulfonates are irritating to eyes and skin. The absorption through intact skin is considered to be very low. They are primarily eliminated in the urine and, to a lesser extent, in the faeces. High oral doses caused reduced voluntary activity, diarrhoea and anaemia. There was no potential to cause cancer or genetic damage * Van Waters and Rogers ** Albright & Wilson			
Laundry Liquid Antibacterial & COCAMIDOPROPYLBETAINE & N-(3-AMINOPROPYL)- N-DODECYL- 1,3-PROPANEDIAMINE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.			
Laundry Liquid Antibacterial & SODIUM XYLENESULFONATE & SODIUM C14-16-OLEFIN SULFONATE	For alkyl sulfates; alkane sulfonates and alpha-olefin sulfonates Most chemicals of this category are not defined substances, but mixtures of homologues with different alkyl side chains. Common physical and/or biological pathways result in structurally similar breakdown products, and are, together with the surfactant properties, responsible for similar environmental behavior and essentially identical hazard profiles with regard to human health. Acute toxicity: These substances are well absorbed after ingestion; penetration through the skin is however, poor. After absorption, these chemicals are distributed mainly to the liver. In animals, signs of poisoning by mouth include lethargy, hair standing up, decreased motor activity and breathing rate, and diarrhea. Poisoning from skin contact caused irritation, tremor, tonic-clonic convulsions, breathing failure, and weight loss. The C-12-akyl sulfate sodium salt caused the greatest effect. In eye irritation tests, C-12 containing alkyl sulfates at greater than 10% concentration were severely irritating and produced irreversible effects on the cornea. With increasing alkyl chain length, the irritating potential decreases, and the longer species are only mildly irritant. Animal studies have not shown alkyl sulfates and C14-18 alpha-olefin sulfonates to cause skin sensitization. However there is anecdotal evidence to suggest sodium lauryl sulfate causes sensitization of the lung, resulting in hyperactive airway dysfunction and lung allergy, accompanied by fatigue, malaise and aching.			
SODIUM HYDROXIDE & SODIUM TRIPOLYPHOSPHATE & SODIUM XYLENESULFONATE & UREA & N-(3-AMINOPROPYL)- N-DODECYL- 1,3-PROPANEDIAMINE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophila. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.			
SODIUM HYDROXIDE & ALCOHOLS C12-15 ETHOXYLATED	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.			
SODIUM XYLENESULFONATE & SODIUM LAURYL ETHER SULFATE & C.I. FLUORESCENT BRIGHTENER 90 & N-(3-AMINOPROPYL)- N-DODECYL- 1,3-PROPANEDIAMINE	No significant acute toxicological data identified in literature search.			
UREA & COCAMIDOPROPYLBETAINE & ETHANOL & N-(3-AMINOPROPYL)- N-DODECYL- 1,3-PROPANEDIAMINE	The material may cause skin irritation after prolonged of vesicles, scaling and thickening of the skin.	r repeated exposure and may produce	e on contact skin redness, swelling, the production of	
COCAMIDOPROPYLBETAINE & SODIUM LAURYL ETHER SULFATE	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.			
SODIUM LAURYL ETHER SULFATE & ALCOHOLS C12-15 ETHOXYLATED	Polyethers (such as ethoxylated surfactants and polyeth mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidised oxidization products also cause irritation.			
Acute Toxicity	×	Carcinogenicity	×	
Skin Irritation/Corrosion	×	Reproductivity	×	
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×	
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×	
Mutagenicity	×	Aspiration Hazard	×	
			t available or does not fill the criteria for classification to make classification	

# **SECTION 12 Ecological information**

	Endpoint	Test Duration (hr)	Species	Valu	e Source
Laundry Liquid Antibacterial	Not Available	Not Available	Not Available	Not Avail	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
sodium hydroxide	NOEC(ECx)	16h	Crustacea	0.393mg/L	. 4
	EC50	48h	Crustacea	34.59-47.1	3ma/l 4

	Endpoint	Test Duration (hr)		Species	V	alue	Sourc
	EC50(ECx)	96h		Algae or other aquatic plants		9.2mg/l	2
sodium tripolyphosphate	EC50	96h		Algae or other aquatic plants		9.2mg/l	2
	EC50	48h		Crustacea		>70.7<101.3mg/l	
	Endpoint	Test Duration (hr) Species			Value	Sourc	
	NOEC(ECx)	96h		Algae or other aquatic plants		31mg/l	2
sodium xylenesulfonate	EC50	48h		Crustacea		>400mg/l	1
	EC50	96h		Algae or other aquatic plants		>=230mg/l	2
	Endpoint	Test Duration (hr)		Species		Value	Sourc
	NOEC(ECx)	9h		Fish		51.594mg/L	4
urea	EC50	48h		Crustacea		6119-7061mg/l	4
	LC50	96h		Fish		>1000mg/l	4
	Endpoint	Test Duration (hr)		Species		Value	Sourc
	EC50	96h		Algae or other aquatic plants		0.55mg/l	1
	EC0(ECx)	96h		Algae or other aquatic plants		0.09mg/l	1
cocamidopropylbetaine	EC50	72h		Algae or other aquatic plants		1-10mg/l	1
	LC50	96h		Fish		1mg/l	1
	EC50	48h		Crustacea		6.5mg/l	1
	Endpoint	Test Duration (hr)		Species		Value	Sourc
sodium lauryl ether sulfate	NOEC(ECx)	48h		Fish		0.26mg/L	5
,	EC50	48h		Crustacea		2.43-4.01mg/l	4
	Endpoint	Test Duration (hr)	St	pecies	Valu	le	Sourc
	EC50	96h		gae or other aquatic plants	<0.0	01mg/L	4
	EC50(ECx)	96h		gae or other aquatic plants		01mg/L	4
ethanol	EC50	72h		gae or other aquatic plants	275	-	2
	LC50	96h		sh		72-27.015mg/L	4
	EC50	48h		rustacea		88mg/L	4
	Endpoint	Test Duration (hr)		Species		Value	Sourc
	NOEC(ECx)	48h		Crustacea		0.056mg/l	2
	EC50	96h		Algae or other aquatic plants		0.7mg/l	4
alcohols C12-15 ethoxylated	EC50	72h		Algae or other aquatic plants		0.3mg/l	2
	LC50	96h		Fish		0.59mg/l	2
	EC50	48h		Crustacea		0.13mg/l	2
	Endpoint	Test Duration (hr)		Species		Value	Source
C.I. Fluorescent Brightener 90	Not Available	Not Available		Not Available		Not Available	Not Availab
	Endpoint	Test Duration (hr)		Species	v	alue	Sourc
	EC50	96h		Algae or other aquatic plants		054mg/l	2
N-(3-aminopropyl)-N-dodecyl-	EC50	48h		Crustacea		001-0.002mg/L	4
1,3-propanediamine	LC50	96h		Fish		004-0.008mg/L	4
	EC50(ECx)	48h		Crustacea		001-0.002mg/L	4
	Endpoint	Test Duration (hr)		Species		Value	Sourc
	NOEC(ECx)	72h		Algae or other aquatic plants		3.2mg/l	2
sodium C14-16-olefin	EC50	72h		Algae or other aquatic plants		5.2mg/l	2
sulfonate	LC50	96h		Fish		>1<10mg/l	2
	EC50	48h		Crustacea		4.14-4.95mg/l	4
							PIWIN S

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

For Surfactants: Kow cannot be easily determined due to hydrophilic/hydrophobic properties of the molecules in surfactants. BCF value: 1-350.

Aquatic Fate: Surfactants tend to accumulate at the interface of the air with water and are not extracted into one or the other liquid phases.

Terrestrial Fate: Anionic surfactants are not appreciably sorbed by inorganic solids. Cationic surfactants are strongly sorbed by solids, particularly clays. Significant sorption of anionic and non-ionic surfactants has been observed in activated sludge and organic river sediments. Surfactants have been shown to improve water infiltration into soils with moderate to severe hydrophobic or water-repellent properties.

Ecotoxicity: Some surfactants are known to be toxic to animals, ecosystems and humans, and can increase the diffusion of other environmental contaminants. **DO NOT** discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
urea	LOW	LOW
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)

#### Bioaccumulative potential

Bioaccumulation
LOW (LogKOW = -3.8796)
LOW (BCF = 10)
LOW (LogKOW = -0.31)
L

# Mobility in soil

Ingredient	Mobility
sodium hydroxide	LOW (KOC = 14.3)
urea	LOW (KOC = 4.191)
ethanol	HIGH (KOC = 1)

### **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise: <ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> </li> </ul>

### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

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

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium hydroxide	Not Available
sodium tripolyphosphate	Not Available
sodium xylenesulfonate	Not Available
urea	Not Available
cocamidopropylbetaine	Not Available
sodium lauryl ether sulfate	Not Available
ethanol	Not Available
alcohols C12-15 ethoxylated	Not Available
C.I. Fluorescent Brightener 90	Not Available
N-(3-aminopropyl)-N-dodecyl- 1,3-propanediamine	Not Available
sodium C14-16-olefin sulfonate	Not Available

### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
sodium hydroxide	Not Available
sodium tripolyphosphate	Not Available
sodium xylenesulfonate	Not Available
urea	Not Available
cocamidopropylbetaine	Not Available
sodium lauryl ether sulfate	Not Available
ethanol	Not Available
alcohols C12-15 ethoxylated	Not Available
C.I. Fluorescent Brightener 90	Not Available
N-(3-aminopropyl)-N-dodecyl- 1,3-propanediamine	Not Available
sodium C14-16-olefin sulfonate	Not Available

## **SECTION 15 Regulatory information**

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

sodium hydroxide is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
	Australian Inventory of Industrial Chemicals (AIIC)
sodium tripolyphosphate is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	
sodium xylenesulfonate is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
urea is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	
cocamidopropylbetaine is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5	Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)
sodium lauryl ether sulfate is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
ethanol is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
alcohols C12-15 ethoxylated is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
C.I. Fluorescent Brightener 90 is found on the following regulatory lists	
Not Applicable	
N-(3-aminopropyl)-N-dodecyl-1,3-propanediamine is found on the following regulatory	lists
Australian Inventory of Industrial Chemicals (AIIC)	
sodium C14-16-olefin sulfonate is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)

## National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (C.I. Fluorescent Brightener 90)	
Canada - DSL	No (C.I. Fluorescent Brightener 90)	
Canada - NDSL	No (sodium hydroxide; sodium tripolyphosphate; sodium xylenesulfonate; urea; cocamidopropylbetaine; sodium lauryl ether sulfate; ethanol; alcohols C12-15 ethoxylated; C.I. Fluorescent Brightener 90; N-(3-aminopropyl)-N-dodecyl-1,3-propanediamine; sodium C14-16-olefin sulfonate)	
China - IECSC	No (C.I. Fluorescent Brightener 90)	
Europe - EINEC / ELINCS / NLP	No (C.I. Fluorescent Brightener 90)	
Japan - ENCS	No (alcohols C12-15 ethoxylated; C.I. Fluorescent Brightener 90; sodium C14-16-olefin sulfonate)	
Korea - KECI	No (N-(3-aminopropyl)-N-dodecyl-1,3-propanediamine)	
New Zealand - NZIoC	No (C.I. Fluorescent Brightener 90)	
Philippines - PICCS	No (C.I. Fluorescent Brightener 90)	
USA - TSCA	No (C.I. Fluorescent Brightener 90)	
Taiwan - TCSI	No (C.I. Fluorescent Brightener 90)	
Mexico - INSQ	No (sodium lauryl ether sulfate; C.I. Fluorescent Brightener 90; N-(3-aminopropyl)-N-dodecyl-1,3-propanediamine; sodium C14-16-olefin sulfonate)	
Vietnam - NCI	No (C.I. Fluorescent Brightener 90)	
Russia - FBEPH	No (C.I. Fluorescent Brightener 90)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed 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 ES: Exposure Standard 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 AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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