# **Cultural Choice Giliian Lemon Detergent**

ACCO Brands Australia Pty Ltd

Version No: 1.0 Safety Data Sheet according to WHS and ADG requirements

#### Issue Date: 31/07/2023

S.GHS.AUS.EN

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

### **Product Identifier**

Product name	Cultural Choice Giliian Lemon Detergent	
Synonyms	Not Available	
Other means of identification	5L - 631020701CUL	

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

Relevant identified uses Manual washing of dishes and cutlery

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

1

Details of the distributor of the safety data sheet

Registered company name	ACCO Brands Australia Pty Ltd	Registered company name	Cultural Choice
Address	17-19 Waterloo Street, Queanbeyan NSW 2620 Australia	Address	Unit 7, 1 Reliance Drive Tuggerah NSW 2259
Telephone	+61-2-96740900	Telephone	1300 784 214
Fax	+61-2-96740910	Fax	Not Available
Website	www.accobrands.com.au	Website	https://culturalchoice.com/
Email	sds.anz@acco.com	Email	customersupport@culturalchoice.com.au

#### Emergency telephone number

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>	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A	
Legend: 1. Classified by Chernwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		

#### Label elements

GHS label elements	
SIGNAL WORD	WARNING

#### Hazard statement(s)

H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

### Precautionary statement(s) Prevention

P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read label before use.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

## Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	

#### Precautionary statement(s) Storage

Not Applicable

### Precautionary statement(s) Disposal

Not Applicable

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
103818-93-5	<10	alcohols C9-11 ethoxylated propoxylated
9004-82-4	10-30	sodium lauryl ether sulfate
61789-40-0	<10	cocamidopropylbetaine
26542-23-4	<10	4,5-dichloro-2-methyl-4-isothiazolin-3-one
26172-55-4	<10	5-chloro-2-methyl-4-isothiazolin-3-one
7732-18-5	>60	water

## 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>Wash out immediately with fresh 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>Seek medical attention without delay; if pain persists or recurs seek medical attention.</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

Treat symptomatically.

### 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: foam.
- dry chemical powder. carbon dioxide.

### Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

## Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>
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	<ul> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>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> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> </ul>
	Decomposes on heating and produces toxic fumes of; carbon dioxide (CO2) other pyrolysis products typical of burning organic materialMay emit poisonous fumes. May emit corrosive fumes.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.  Prevent, by any means available, spillage from entering drains or water course.  Stop leak if safe to do so.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.

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

## SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

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>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</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	

## Conditions for safe storage, 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	None known

## 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
5-chloro-2-methyl- 4-isothiazolin-3-one	Chloro-2-methyl-4-isothiazolin-3-one, 5-	0.2 mg/m3	0.2 mg/m3	0.2 mg/m3
Ingredient	Original IDLH	Revised IDLH		
tetrasodium N,N-bis(carboxymethyl)-L- glutamate	Not Available	Not Available		
alcohols C9-11 ethoxylated propoxylated	Not Available	Not Available		

sodium lauryl ether sulfate	Not Available	Not Available
cocamidopropylbetaine	Not Available	Not Available
sodium chloride	Not Available	Not Available
4,5-dichloro-2-methyl- 4-isothiazolin-3-one	Not Available	Not Available
5-chloro-2-methyl- 4-isothiazolin-3-one	Not Available	Not Available
water	Not Available	Not Available

#### Exposure controls

Appropriete engineering outcols are used to encome a hazard or place a barlier between the worker and the location. The basic speed degleering outcols are to highly define and used is portioned and use place of the speed degleering outcols are to highly define and used is portioned and use place of the speed degleering outcols are to highly degleering outcols are to highly degleering outcols are used to encome a hazard or place of hazard 'place of the sub-flace of place of the sub-flace of the sub	•	
Hands/feet protection <ul> <li>Safety glasses with side shields.</li> <li>Contract insess may pose a special hexard; soft contact lenses may absorb and concentrate inflants. 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 demication use and an account of largy experiences. Medical and first-aid personnel should be transed in the increased and subtace support should be removed at a left first sign of eyre entrees or inflation - lens should be removed in a clean environment only after workers have washed hands thoroughly.</li> </ul> <li>Skin protection</li> <li>See Hand protection below</li> <li>Wear stering of other and sign of eyre effects or inflation - lens should be removed in a clean environment only after workers have washed hands thoroughly.</li> <li>Wear stering produces is in sensitisation in predsposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contract.</li> <li>The material may produce sin sensitisation in predsposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contract.</li> <li>The material may produce sin sensitisation in predsposed individuals. Care must be taken, when removing gloves and other protective exceed when making a final statistic exceeding the sensitistic on the resistance of the glove material cont to be clocked prior to the application.</li> <li>The exat break through time for substances has be be beakined from the manufacturer of the protective gloves and has be observed when making a final choice.</li> <li>Integration of several substances, the resistance of the glove material cont allow gloves in the selection of gloves include:</li> <li>Integratin a dura</li>		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.
Eye and face protection <ul> <li>Containing loggles.</li> <li>Wear chemical exposure, begin eye infigation immediately and remove contait lens as soon as practicable. Lens should be removed in a clean environment only after workers have washed hands throughly.</li> <li>Skin protection</li> <li>Wear chemical protection below</li> <li>Wear chemical protection below</li> <li>Wear sately lootwear or sately gumbools, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce sin sensitiation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possities exist oces on only depend on the material log and estroyed.</li> <li>Containinated leather items, such as shoes, belis and watch-bands should be remarked of an log log log log log log log log log log</li></ul>	Personal 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 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 therefore to be checked prior to the application.</li> <li>If equency and durability of glove type is dependent on usage. Important factors in the selection of gloves include:         <ul> <li>if equency and durability of glove type is dependent on usage. Important factors in the selection of gloves include:             <ul> <li>if equency and durability of glove type is dependent on usage. Important factors in the selection of gloves include:             <ul> <li>if equency and durability of glove type is dependent on usage. Important factors in the selection of gloves include:             <ul> <li>if equiprent standard (e.g. Europe EN 374, US F739, ASINZS 2161.1 or national equivalent).</li> <li>When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN</li></ul></li></ul></li></ul></li></ul></li></ul>	Eye and face protection	<ul> <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</li> </ul>
• Wear safety footwear or safety gumboots, e.g. Rubber         NDTE:         • The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.         • Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.         The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.         The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.         Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:         • chemical resistance of glove material,         • glove thickness and         • dosterity         Selected to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).         • When prolonged or frequently repeated contact may occur, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0 r national equivalent) is recommended.         • When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0 r national equivalent) is recommended.         •	Skin protection	See Hand protection below
Other protection <ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>	Hands/feet protection	<ul> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE: <ul> <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> </ul> </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>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: <ul> <li>frequency and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dexterity</li> </ul> </li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> </ul>
Other protection <ul> <li>P.V.C. apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>	Body protection	See Other protection below
Thermal hazards Not Available	Other protection	<ul> <li>P.V.C. apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</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: Dishwashing Liquid Yellow

Material	CPI
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	C
NEOPRENE	C

#### **Respiratory protection**

Type AK-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	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	-

NITRILE	С	
PVA	С	
VITON	С	

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as

"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

up to 100 x ES - AK-2 P2 AK-PAPR-2 P2 ^

^ - Full-face

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

Appearance	A clear yellow liquid		
Physical state	Liquid	Relative density (Water = 1)	0.98-1.02
Odour	Lemon	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8.0-10.0	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 (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

#### SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product
Ingestion	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	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. 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	This material can cause eye irritation and damage in some persons.
Chronic	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general

	population.				
	ΤΟΧΙΟΙΤΥ	IRRITATION			
Dishwashing Liquid Yellow	Not Available	Not Available			Ŀ
Tenow					_
	TOXICITY	IR	RITATION		
alcohols C9-11 ethoxylated	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	* [5	SHELL CCINFO	1441905]	1
propoxylated	Oral (rat) LD50: 1378 mg/kgE <sup>[2]</sup>	Ey	e (human): SEVE	RE	1
		Sk	in: SEVERE		
	TOXICITY	IRRITATION			
sodium lauryl ether sulfate	Oral (rat) LD50: 1600 mg/kge <sup>[2]</sup>	Skin (rabbit):25 r	mg/24 hr modera	te	]
	TOXICITY		IRRITATION		
cocamidopropylbetaine	Oral (rat) LD50: 2700 mg/kg** <sup>[2]</sup>		Eye: primary irritant *		
	Skin: primary irritant *		ritant *		
	TOXICITY	IRRITATION	1		
4,5-dichloro-2-methyl- 4-isothiazolin-3-one	Not Available		Not Available		1
					_
5-chloro-2-methyl-	TOXICITY	IRRITATION			
4-isothiazolin-3-one	Not Available	Not Available	•		
water	TOXICITY			IRRITATION	
water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>			Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicit extracted from RTECS - Register of Toxic Effect of chemical Substances	ty 2.* Value obtaine	ed from manufac	turer's SDS. Unless otherwise specified data	
ALCOHOLS C9-		estion, inhalation, o p produce any toxic ute toxicity of alcoh testinal irritation su ated when undilute	or contact with the c response. More not ethoxylates ha uch as ulcerations ad alcohol ethoxyl	e skin or eyes. Studies of acute toxicity show over, no fatal case of poisoning with alcohol we shown that the use of these compounds is of s of the stomach, pilo-erection, diarrhea, and	
ETHOXYLATE PROPOXYLATE				ng genetic damage, mutations or cancer. No	

adverse reproductive or developmental effects were observed. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce

conjunctivitis.

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.

for alcohols C9-11 ethoxylated Somnolence, ataxia, diarrhoea recorded.

No significant acute toxicological data identified in literature search.

SODIUM LAURYL ETHER

Alcohol ethoxysulfates (AES) are of low acute toxicity. Neat AES are irritant to the skin and eyes. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. SULFATE \* [CESIO]

COCAMIDOPROPYLBETAINE	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 urlicaria 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 urlicaria, 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. Possible cross-reactions to several fatty 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. Stearamidopropyl dimethylamine at 2% in hair conditioners was not a contact sensitiser when tested neat or diluted to 30%. However, irritation reactions were observed. A 10-year retrospective study found that out of 46 patients with confirmed allergic eyelid dermatitis, 10.9% had relevant reactions to oleamidopropyl dimethylamine and 4.3% had relevant reactions. Containing the fatty acid amidopropyl dimethylamine cocamidopropyl betaine (CAPB), 9 had positive reactions to at least one dilution and 5 had initiant reactions. All except 3 patients, who were not tested, had 2 or 3+ reaction to the 3.3-dimethylaminopropylamine (DMAPA, the reactant used in producing fatty acid amidopropyl dimethylamines) at concentrations as low as 0.05%. The presence of DMAPA was investigated via thin-layer chromatography in the personal cosmetics of 4 of the patients th
4,5-DICHLORO-2-METHYL- 4-ISOTHIAZOLIN-3-ONE	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. No significant acute toxicological data identified in literature search. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to 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
5-CHLORO-2-METHYL- 4-ISOTHIAZOLIN-3-ONE	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. No significant acute toxicological data identified in literature search. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-alopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritatin. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the

Page 8 of 10

## Lemon Detergent

	NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. Considered to be the major sensitiser in Kathon CG (1) (1). Bruze etal - Contact Dermatitis 20: 219-39, 1989			
Dishwashing Liquid & WATE	R No significant acute toxicological data identified in literati	No significant acute toxicological data identified in literature search.		
Acute Toxicity	0	Carcinogenicity	0	
Skin Irritation/Corrosion	<ul><li>✓</li></ul>	Reproductivity	$\otimes$	
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	0	
Respiratory or Skin sensitisation	$\otimes$	STOT - Repeated Exposure	0	
Mutagenicity	$\otimes$	Aspiration Hazard	$\otimes$	
			<ul> <li>Data available but does not fill the criteria for classification</li> <li>Data required to make classification available</li> </ul>	

 $\sim$  – Data required to make classification availa  $\sim$  – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

ngredient	Endpoint	Test Duration (hr)	Species	Value	Source
dium lauryl ether sulfate	NOEC	48	Fish	0.26mg/L	5
camidopropylbetaine	EC50	48	Crustacea	6.5mg/L	1
camidopropylbetaine	NOEC	504	Crustacea	=0.9mg/L	1
camidopropylbetaine	EC0	96	Algae or other aquatic plants	=0.09mg/L	1
ocamidopropylbetaine	EC50	96	Algae or other aquatic plants	=0.55mg/L	1
ocamidopropylbetaine	LC50	96	Fish	=1mg/L	1
-chloro-2-methyl-	EC50	120	Algoe or other aquistic plants	0.022ma/	1
-	EC50	120	Algae or other aquatic plants	0.022mg/L	4
-isothiazolin-3-one -chloro-2-methyl-	EC50 EC50	120	Algae or other aquatic plants Crustacea	0.022mg/L 0.028mg/L	4
-chloro-2-methyl- isothiazolin-3-one -chloro-2-methyl- isothiazolin-3-one -chloro-2-methyl- isothiazolin-3-one					
-isothiazolin-3-one -chloro-2-methyl- -isothiazolin-3-one -chloro-2-methyl-	EC50	48	Crustacea	0.028mg/L	4
isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one chloro-2-methyl-	EC50 EC50	48 72	Crustacea Algae or other aquatic plants	0.028mg/L 0.021mg/L	4
isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one chloro-2-methyl-	EC50 EC50 LC50	48 72 96	Crustacea Algae or other aquatic plants Fish	0.028mg/L 0.021mg/L 0.19mg/L	4 4 4
isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one chloro-2-methyl- isothiazolin-3-one	EC50 EC50 LC50 NOEC	48 72 96 504	Crustacea Algae or other aquatic plants Fish Crustacea	0.028mg/L 0.021mg/L 0.19mg/L 0.172mg/L	4 4 4 1

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
5-chloro-2-methyl- 4-isothiazolin-3-one	HIGH	HIGH
water	LOW	LOW

Ingredient	Bioaccumulation
5-chloro-2-methyl- 4-isothiazolin-3-one	LOW (LogKOW = 0.0444)
water	LOW (LogKOW = -1.38)
Mobility in soil	
Ingredient	Mobility

Ingredient	Mobility
5-chloro-2-methyl- 4-isothiazolin-3-one	LOW (KOC = 45.15)
water	LOW (KOC = 14.3)

## SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some
	areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
	▶ Reduction
	▶ Reuse
	► Recycling
	Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be
	possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type.
Product / Packaging	Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
disposal	<ul> <li>D ONT allow wash water from cleaning or process equipment to enter drains.</li> </ul>
uisposai	If may be necessary to collect all wash water for treatment before disposal.
	<ul> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> </ul>
	Where in doubt contact the responsible authority.
	Recycle wherever possible.
	Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
	can be identified.
	Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after
	admixture with suitable combustible material).
	<ul> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</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

### **SECTION 15 REGULATORY INFORMATION**

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

ALCOHOLS C9-11 ETHOXYLATED PROPOXYLATED(103818-93-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS		
Australia Hazardous Substances Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS)	
SODIUM LAURYL ETHER SULFATE(9004-82-4) IS FOUND ON THE FOLLOWING REGULA	TORY LISTS	
Australia Hazardous Substances Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS)	

### COCAMIDOPROPYLBETAINE(61789-40-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

#### Australia Inventory of Chemical Substances (AICS)

#### 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE(26172-55-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

## WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one; alcohols C9-11 ethoxylated propoxylated)
Canada - NDSL	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one; 5-chloro-2-methyl-4-isothiazolin-3-one; alcohols C9-11 ethoxylated propoxylated; water; cocamidopropylbetaine)
China - IECSC	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one)
Europe - EINEC / ELINCS / NLP	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one; alcohols C9-11 ethoxylated propoxylated)
Japan - ENCS	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one; alcohols C9-11 ethoxylated propoxylated; water)
Korea - KECI	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one)
New Zealand - NZIoC	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one)
Philippines - PICCS	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one)
USA - TSCA	N (4,5-dichloro-2-methyl-4-isothiazolin-3-one; alcohols C9-11 ethoxylated propoxylated)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

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

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
sodium lauryl ether sulfate	11121-04-3, 113096-26-7, 115284-60-1, 116958-77-1, 12627-22-4, 12627-23-5, 1335-72-4, 1335-73-5, 3088-31-1, 32057-62-8, 37325-23-8, 39390-84-6, 39450-08-3, 42504-27-8, 51059-21-3, 51286-51-2, 53663-56-2, 56572-89-5, 57762-43-3, 57762-59-1, 66747-17-9, 68585-34-2, 68891-38-3, 73651-68-0, 74349-47-6, 76724-02-2, 9004-82-4, 91648-56-5, 95508-27-3, 98112-64-2
cocamidopropylbetaine	61789-40-0, 83138-08-3, 86438-79-1, 97862-59-4

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<sub>o</sub> 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 ILV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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