

# Cleera Pearl White Liquid Hand Wash

ACCO Brands Australia Pty Ltd

Version No: 1.3

Safety Data Sheet according to WHS and ADG requirements

Issue Date: 20/04/2021

S.GHS.AUS.EN

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

### Product Identifier

|                               |   |
|-------------------------------|---|
| Product name                  | Cleera Pearl White Liquid Hand Wash   |
| Synonyms                      | Not Available   |
| Other means of identification | 5L - 87011250(635030700WI), 5L (Carton of 3) - 25071652(635030700WI), 15L - 87011251(635030800WI) |

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

|                          |              |
|--------------------------|--------------|
| Relevant identified uses | Hand Washing |
|--------------------------|--------------|

### 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.accobrand.com.au                                 |
| Email                   | sds.anz@acco.com                                     |

### Details of the distributor of the safety data sheet

|                         |                                       |
|-------------------------|---------------------------------------|
| Registered company name | WINC Australia Pty Ltd                |
| Australian Address      | 163 O'Riordan Street, Mascot NSW 2020 |
| Website                 | www.winc.com.au                       |
| Telephone               | AU: 13 26 44                          |

### 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 [1] | Eye Irritation Category 2A  |
| 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         | WARNING   |

### Hazard statement(s)

|      |                                |
|------|--------------------------------|
| H319 | Causes serious eye irritation. |
|------|--------------------------------|

### 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 label before use.  |

### Precautionary statement(s) Response

|                |  |
|----------------|--|
| 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.  |

Continued...

## Pearl White Liquid Hand Wash

### 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  |
|------------|-----------|---|
| 9004-82-4  | <10       | <u>sodium lauryl ether sulfate</u>            |
| 61789-40-0 | <10       | <u>cocamidopropylbetaine</u>                  |
| 56-81-5    | <10       | <u>glycerol</u>                               |
| 26172-55-4 | <1        | <u>5-chloro-2-methyl-4-isothiazolin-3-one</u> |

## SECTION 4 FIRST AID MEASURES

### Description of first aid measures

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <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> |
| <b>Skin Contact</b> |   |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>   |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <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

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

### Special hazards arising from the substrate or mixture

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

### Advice for firefighters

|                              |   |
|------------------------------|---|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>▶ Use fire fighting procedures suitable for surrounding area.</li> <li>▶ <b>DO NOT</b> 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> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered a significant fire risk, however containers may burn.</li> </ul> <p>May emit corrosive fumes.</p>   |
| <b>HAZCHEM</b>               | Not Applicable  |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

Continued...

## Pearl White Liquid Hand Wash

### Methods and material for containment and cleaning up

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <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>   |
| <b>Major Spills</b> | <p>Moderate hazard.</p> <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Stop leak if safe to do so.</li> <li>▶ Contain spill with sand, earth or vermiculite.</li> <li>▶ Collect recoverable product into labelled containers for recycling.</li> </ul> |

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

### SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

|                          |  |
|--------------------------|--|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <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> |
| <b>Other information</b> |  |

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

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <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> |
| <b>Storage incompatibility</b> | None known  |

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

##### OCCUPATIONAL EXPOSURE LIMITS (OEL)

##### INGREDIENT DATA

| Source                       | Ingredient | Material name | TWA                  | STEL          | Peak          | Notes  |
|------------------------------|------------|---------------|----------------------|---------------|---------------|--|
| Australia Exposure Standards | glycerol   | Glycerin mist | 10 mg/m <sup>3</sup> | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |

##### EMERGENCY LIMITS

| Ingredient                             | Material name                            | TEEL-1                | TEEL-2                | TEEL-3                  |
|--|--|-----------------------|-----------------------|-------------------------|
| glycerol                               | Glycerine (mist); (Glycerol; Glycerin)   | 45 mg/m <sup>3</sup>  | 860 mg/m <sup>3</sup> | 2,500 mg/m <sup>3</sup> |
| 5-chloro-2-methyl-4-isothiazolin-3-one | Chloro-2-methyl-4-isothiazolin-3-one, 5- | 0.6 mg/m <sup>3</sup> | 6.6 mg/m <sup>3</sup> | 40 mg/m <sup>3</sup>    |

| Ingredient                             | Original IDLH | Revised IDLH  |
|--|---------------|---------------|
| sodium lauryl ether sulfate            | Not Available | Not Available |
| cocamidopropylbetaine                  | Not Available | Not Available |
| glycerol                               | Not Available | Not Available |
| 5-chloro-2-methyl-4-isothiazolin-3-one | Not Available | Not Available |

##### OCCUPATIONAL EXPOSURE BANDING

| Ingredient                             | Occupational Exposure Band Rating | Occupational Exposure Band Limit  |
|--|-----------------------------------|-----------------------------------|
| sodium lauryl ether sulfate            | E                                 | ≤ 0.01 mg/m <sup>3</sup>          |
| cocamidopropylbetaine                  | E                                 | ≤ 0.1 ppm                         |
| 5-chloro-2-methyl-4-isothiazolin-3-one | D                                 | > 0.01 to ≤ 0.1 mg/m <sup>3</sup> |


Continued...

## Pearl White Liquid Hand Wash

**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.

**Exposure controls**

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | <p>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:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>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.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> <p>General exhaust is adequate under normal operating conditions.</p> |
| <b>Personal protection</b>              |   |
| <b>Eye and face protection</b>          | <ul style="list-style-type: none"> <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>   |
| <b>Skin protection</b>                  | See Hand protection below  |
| <b>Hands/feet protection</b>            |  |
| <b>Body protection</b>                  | See Other protection below   |
| <b>Other protection</b>                 | <ul style="list-style-type: none"> <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<sup>®</sup>**.

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

Liquid Hand Wash

| Material         | CPI |
|------------------|-----|
| BUTYL            | C   |
| NATURAL RUBBER   | C   |
| NATURAL+NEOPRENE | C   |
| NEOPRENE         | C   |
| NITRILE          | C   |
| PVA              | C   |
| VITON            | C   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

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

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                  |               |   |               |
|------------------|---------------|---|---------------|
| Appearance       | White Liquid  |   |               |
| Physical state   | Liquid        | Relative density (Water = 1)            | 1.00-1.05     |
| Odour            | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold  | Not Available | Auto-ignition temperature (°C)          | Not Available |
| pH (as supplied) | 6-8           | Decomposition temperature               | Not Available |

Continued...

## Pearl White Liquid Hand Wash

|  |               |                                  |               |
|--|---------------|----------------------------------|---------------|
| 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 style="list-style-type: none"> <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.<br>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 | 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.<br>There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  |
| Eye          | This material can cause eye irritation and damage in some persons.   |
| Chronic      | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  |

|                             |   |   |
|-----------------------------|---|---|
| Liquid Hand Wash            | TOXICITY                                      | IRRITATION  |
|                             | Not Available                                 | Not Available   |
| sodium lauryl ether sulfate | TOXICITY                                      | IRRITATION  |
|                             | Oral (rat) LD50: 1600 mg/kg <sup>[2]</sup>    | Eye: adverse effect observed (irritating) <sup>[1]</sup>  |
|                             |   | Skin (rabbit): 25 mg/24 hr moderate                       |
|                             |   | Skin: adverse effect observed (irritating) <sup>[1]</sup> |
| cocamidopropylbetaine       | TOXICITY                                      | IRRITATION  |
|                             | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> | Eye: adverse effect observed (irritating) <sup>[1]</sup>  |
|                             | Oral (rat) LD50: 2700 mg/kg <sup>[2]</sup>    | Eye: primary irritant *                                   |
|                             |   | Skin: adverse effect observed (irritating) <sup>[1]</sup> |
|                             |   | Skin: primary irritant *                                  |
| glycerol                    | TOXICITY                                      | IRRITATION  |
|                             | Oral (rat) LD50: >10000 mg/kg <sup>[2]</sup>  | Not Available   |

Continued...

## Pearl White Liquid Hand Wash

|  |  |   |
|--|--|---|
| 5-chloro-2-methyl-4-isothiazolin-3-one | TOXICITY   | IRRITATION  |
|  | dermal (rat) LD50: >1008 mg/kg <sup>[2]</sup>  | Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> |
|  | Oral (rat) LD50: 481 mg/kg <sup>[2]</sup>  | Skin: adverse effect observed (corrosive) <sup>[1]</sup>          |
| Legend:                                | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances   |   |
| SODIUM LAURYL ETHER SULFATE            | <p>* [CESIO]<br/>Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products.<br/>Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitizers. The oxidation products also cause irritation.<br/>Alcohol ethoxysulfates (AES) are of low acute toxicity. Neat AES are irritant to the skin and eyes.</p> <p>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 dimethylamine.<br/>Stearamidopropyl dimethylamine at 2% in hair conditioners was not a contact sensitizer when tested neat or diluted to 30%. However, irritation reactions were observed.<br/>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 to cocamidopropyl dimethylamine.<br/>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.<br/>In 12 patients tested with their personal cosmetics, containing the fatty acid amidopropyl dimethylamine cocamidopropyl betaine (CAPB), 9 had positive reactions to at least one dilution and 5 had irritant 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 that had positive reactions.<br/>Most undiluted cationic surfactants satisfy the criteria for classification as Harmful (Xn) with R22 and as Irritant (Xi) for skin and eyes with R38 and R41.<br/>Amphoteric surfactants are easily absorbed in the gut and partly excreted unchanged in the faeces. It has not been shown to accumulate in the body. Concentrated betaines are expected to irritate the skin and eyes, but dilute solutions only irritate the eyes.<br/>No evidence of delayed contact hypersensitivity was found in animal testing. Tests for mutation-causing potential have proved negative.</p>   |   |
| COCAMIDOPROPYLBETAINE                  | <p>* [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 is likely to be of low acute dermal toxicity. Irritation. The chemical has a quaternary ammonium functional group, which is a structural alert for corrosion. Numerous skin irritation studies, conducted with formulations containing 7.5-30% of the chemical, indicated 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 is likely to be a skin irritant. Eye irritation studies with the chemical showed that corrosive and necrotic effects occurred at 30% whereas less severe effects were observed at lower concentrations of 2.3-10%. 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 irritant. Sensitisation. The chemical has a quaternary ammonium functional group, which is a structural alert for sensitisation (Conflicting results have been obtained with 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 0.015% challenge. However, there was no sensitisation in a guinea pig maximisation test when the chemical was tested at 6% induction and 1% challenge. In addition, no sensitisation was observed in another test in guinea pigs at 0.75% induction and 0.02% challenge. No evidence of sensitisation was reported in a HRIPT on a formulation containing the chemical at 0.6% concentration (a 10% dilution of a ~6% formulation) with 110 volunteers. In HRIPT studies on formulations containing the chemical, no evidence of sensitisation was reported at concentrations of 1.87% (88 subjects), 0.93% (93 subjects), 0.3% (100 subjects), 1.5-3.0% (141 subjects), 6.0% (210 subjects), 0.018% (27 subjects). However, positive results were observed in provocative studies conducted on formulations containing the chemical (at 0.3-1% concentration), conducted in subjects diagnosed with various forms of contact dermatitis, suggesting that the chemical may cause reactions in sensitive individuals. In one study authors note that sensitisation effects of the chemical (and related compounds) are most likely due to the impurities, including DMAPA and amidopropyl dimethylamines, however, they do not exclude the possibility of the causing the sensitisation. The potential for skin sensit</p> |   |
| GLYCEROL                               | <p>At very high concentrations, evidence predicts that glycerol may cause tremor, irritation of the skin, eyes, digestive tract and airway. Otherwise it is of low toxicity. There is no significant evidence to suggest that it causes cancer, genetic, reproductive or developmental toxicity.</p>   |   |
| 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE | <p>Based on laboratory and animal testing, exposure to the material may result in irreversible effects and mutations in humans. In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance.<br/>Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by non-professional users. In addition, potential exposure of non-users of biocidal products (i.e. the general public) may occur indirectly via the environment, for example through drinking water, the food chain, as well as through atmospheric and residential exposure. Particular attention should be paid to the exposure of vulnerable sub-populations, such as the elderly, pregnant women, and children. Also pets and other domestic animals can be exposed indirectly following the application of biocidal products.<br/>Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign 'contains formaldehyde' where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines capable of causing cancers (nitrosamines) when used in formulations containing amines.<br/>The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p>   |   |

Continued...

## Pearl White Liquid Hand Wash

|  |   |                          |   |
|--|---|--------------------------|---|
|  | <p><b>NOTE:</b> 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.<br/>Considered to be the major sensitiser in Kathon CG (1) (1). Bruze et al - Contact Dermatitis 20: 219-39, 1989</p> <p>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.</p> |                          |   |
| Liquid Hand Wash & COCAMIDOPROPYL BETAINE & 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE |   |                          |   |
| SODIUM LAURYL ETHER SULFATE & 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE               | No significant acute toxicological data identified in literature search.  |                          |   |
| SODIUM LAURYL ETHER SULFATE & COCAMIDOPROPYL BETAINE                               | The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.   |                          |   |
| COCAMIDOPROPYL BETAINE & 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE                    | 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.  |                          |   |
| GLYCEROL & 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE                                  | 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 eosinophilia. 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.             |                          |   |
| Acute Toxicity   | ×   | Carcinogenicity          | × |
| Skin Irritation/Corrosion  | ×   | Reproductivity           | × |
| Serious Eye Damage/Irritation  | ✓   | STOT - Single Exposure   | × |
| Respiratory or Skin sensitisation  | ×   | STOT - Repeated Exposure | × |
| Mutagenicity   | ×   | Aspiration Hazard        | × |

Legend: × – Data either not available or does not fill the criteria for classification  
✓ – Data available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

| Liquid Hand Wash | ENDPOINT      | TEST DURATION (HR) | SPECIES       | VALUE         | SOURCE        |
|------------------|---------------|--------------------|---------------|---------------|---------------|
|                  | Not Available | Not Available      | Not Available | Not Available | Not Available |

| sodium lauryl ether sulfate | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE    | SOURCE |
|-----------------------------|----------|--------------------|---------|----------|--------|
|                             | NOEC     | 48                 | Fish    | 0.26mg/L | 5      |

| cocamidopropylbetaine | ENDPOINT | TEST DURATION (HR) | SPECIES                       | VALUE    | SOURCE |
|-----------------------|----------|--------------------|-------------------------------|----------|--------|
|                       | LC50     | 96                 | Fish                          | =1mg/L   | 1      |
|                       | EC50     | 48                 | Crustacea                     | 6.4mg/L  | 2      |
|                       | EC50     | 96                 | Algae or other aquatic plants | 0.55mg/L | 2      |
|                       | NOEC     | 672                | Fish                          | 0.16mg/L | 2      |

| glycerol | ENDPOINT | TEST DURATION (HR)            | SPECIES       | VALUE       | SOURCE |
|----------|----------|-------------------------------|---------------|-------------|--------|
|          | LC50     | 96                            | Fish          | >0.011-mg/L | 2      |
| EC50     | 96       | Algae or other aquatic plants | 77712.039mg/L | 3           |        |

| 5-chloro-2-methyl-4-isothiazolin-3-one | ENDPOINT | TEST DURATION (HR) | SPECIES                       | VALUE     | SOURCE |
|--|----------|--------------------|-------------------------------|-----------|--------|
|  | LC50     | 96                 | Fish                          | 0.19mg/L  | 4      |
|  | EC50     | 48                 | Crustacea                     | 0.028mg/L | 4      |
|  | EC50     | 72                 | Algae or other aquatic plants | 0.021mg/L | 4      |
|  | NOEC     | 504                | Crustacea                     | 0.172mg/L | 1      |

Legend: 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Continued...

## Pearl White Liquid Hand Wash

### Persistence and degradability

| Ingredient                             | Persistence: Water/Soil | Persistence: Air |
|--|-------------------------|------------------|
| glycerol                               | LOW                     | LOW              |
| 5-chloro-2-methyl-4-isothiazolin-3-one | HIGH                    | HIGH             |

### Bioaccumulative potential

| Ingredient                             | Bioaccumulation       |
|--|-----------------------|
| glycerol                               | LOW (LogKOW = -1.76)  |
| 5-chloro-2-methyl-4-isothiazolin-3-one | LOW (LogKOW = 0.0444) |

### Mobility in soil

| Ingredient                             | Mobility          |
|--|-------------------|
| glycerol                               | HIGH (KOC = 1)    |
| 5-chloro-2-methyl-4-isothiazolin-3-one | LOW (KOC = 45.15) |

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

|  |   |
|--|---|
| <p><b>Product / Packaging disposal</b></p> | <ul style="list-style-type: none"> <li>▶ Containers may still present a chemical hazard/ danger when empty.</li> <li>▶ Return to supplier for reuse/ recycling if possible.</li> </ul> <p>Otherwise:</p> <ul style="list-style-type: none"> <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> </ul> <p>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.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> <li>▶ Reduction</li> <li>▶ Reuse</li> <li>▶ Recycling</li> <li>▶ Disposal (if all else fails)</li> </ul> <p>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.</p> <ul style="list-style-type: none"> <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 sewer 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.</li> <li>▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).</li> <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**

### SODIUM LAURYL ETHER SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Inventory of Chemical Substances (AICS)

GESAMP/EHS Composite List - GESAMP Hazard Profiles

### COCAMIDOPROPYL BETAINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Continued...



## Pearl White Liquid Hand Wash

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List  
 Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes  
 Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australia Inventory of Chemical Substances (AICS)  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
 International Air Transport Association (IATA) Dangerous Goods Regulations  
 International Maritime Dangerous Goods Requirements (IMDG Code)  
 United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

### GLYCEROL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards  
 Australia Inventory of Chemical Substances (AICS)  
 GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements  
 IMO IBC Code Chapter 18: List of products to which the Code does not apply  
 IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances

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

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List  
 Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes  
 Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
 International Air Transport Association (IATA) Dangerous Goods Regulations  
 International Maritime Dangerous Goods Requirements (IMDG Code)  
 United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

### National Inventory Status

| National Inventory            | Status   |
|-------------------------------|--|
| Australia - AICS              | Yes  |
| Canada - DSL                  | Yes  |
| Canada - NDSL                 | No (5-chloro-2-methyl-4-isothiazolin-3-one; glycerol; sodium lauryl ether sulfate; cocamidopropylbetaine)  |
| China - IECSC                 | Yes  |
| Europe - EINEC / ELINCS / NLP | Yes  |
| Japan - ENCS                  | No (cocamidopropylbetaine)   |
| Korea - KECI                  | Yes  |
| New Zealand - NZIoC           | Yes  |
| Philippines - PICCS           | Yes  |
| USA - TSCA                    | Yes  |
| Taiwan - TCSI                 | Yes  |
| Mexico - INSQ                 | No (sodium lauryl ether sulfate)   |
| Vietnam - NCI                 | Yes  |
| Russia - ARIPS                | Yes  |
| <b>Legend:</b>                | Yes = All CAS declared ingredients are on the inventory<br>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  
 OSF: Odour Safety Factor  
 NOAEL :No Observed Adverse Effect Level  
 LOAEL: Lowest Observed Adverse Effect Level  
 TLV: Threshold Limit Value  
 LOD: Limit Of Detection  
 OTV: Odour Threshold Value  
 BCF: BioConcentration Factors  
 BEI: Biological Exposure Index

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