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## SECTION 1 PRODUCT IDENTIFICATION

**Product Name:** KOVIT Hospital Grade BKCL Disinfectant Cleanser

Chemical Name: Not Applicable
Synonyms: Not Applicable
Chemical Formula: Not Applicable
Other Means of Identification: Not Applicable

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

**Relevant Identified Uses:** Disinfectant Cleaner.

Use according to manufacturer's directions.

## SECTION 2 HAZARD IDENTIFICATION

## **Classification of the Substance or Mixture**

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

Poisons Schedule: Not Applicable
Classification [1] Not Applicable

**Label elements** 

Hazard Pictogram(s): Not Applicable
Signal Word: Not Applicable

Hazard Statement(s): Not Applicable

Precautionary Statement(s)

Prevention:Not ApplicableResponse:Not ApplicableStorage:Not ApplicableDisposal:Not Applicable

## ( SECTION 3 ) COMPOSITION/INFORMATION ON INGREDIENTS

**Substances:** See section below for composition of Mixtures

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### Mixtures:

| CAS No        | %[weight] | Name                                       |  |
|---------------|-----------|--|--|
| 64366-70-7    | 1-3       | 2-Ethylhexanol, Ethoxylated, Propoxylated  |  |
| 67-63-0       | 1-3       | <u>Isopropanol</u>                         |  |
| 63449-41-2    | 0.35      | Benzalkonium Chloride                      |  |
| 7173-51-5     | 0.30      | Didecyldimethylammonium Chloride           |  |
| Not Available | Balance   | Ingredients determined not to be hazardous |  |
| Not Available |           | Includes                                   |  |
| 7732-18-5     | >60       | Water                                      |  |

## SECTION 4 FIRST AID MEASURES

### **Description of First Aid Measures**

**Eye Contact:** If this product comes in contact with the eyes:

Wash out immediately with fresh running water.

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.

Seek medical attention without delay; if pain persists or recurs seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Skin Contact:** If skin contact occurs:

Immediately remove all contaminated clothing, including footwear.

Flush skin and hair with running water (and soap if available).

Seek medical attention in event of irritation.

Inhalation: If fumes, aerosols or combustion products are inhaled remove from contaminated area.

Other measures are usually unnecessary.

Ingestion: If swallowed do NOT induce vomiting.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to

maintain open airway and prevent aspiration.

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.

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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( SECTION 5 )

## FIRE FIGHTING 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:** Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves in the event of a fire.

Prevent, by any means available, spillage from entering drains or water courses.

Use fire fighting procedures suitable for surrounding area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

Equipment should be thoroughly decontaminated after use.

Fire/Explosion Hazard: The material is not readily combustible under normal conditions.

However, it will break down under fire conditions and the organic component may burn.

Not considered to be a significant fire risk.

Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and may produce toxic fumes of Carbon Monoxide (CO).

May emit acrid smoke.

Decomposes on heating and produces toxic fumes of:

Carbon Dioxide (CO<sub>2</sub>)

Other pyrolysis products typical of burning organic material.

May emit poisonous fumes. May emit corrosive fumes.

HAZCHEM: Not Applicable

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

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## Methods and material for containment and cleaning up

Minor Spills: Clean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes.

Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite.

Wipe up.

Place in a suitable, labelled container for waste disposal.

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. Neutralise/decontaminate residue (see Section 13 for specific agent).

Collect solid residues and seal in labelled drums for disposal.

Wash area and prevent runoff into drains.

After clean up operations, decontaminate and launder all protective clothing and equipment before

storing and re-using.

If contamination of drains or waterways occurs, advise emergency services.

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

## SECTION 7

## **HANDLING AND STORAGE**

## **Precautions for Safe Handling**

Safe Handling: DO NOT allow clothing wet with material to stay in contact with skin.

Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Prevent concentration in hollows and sumps.

DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils.

Avoid contact with incompatible materials.

When handling, DO NOT eat, drink or smoke.

Keep containers securely sealed when not in use.

Avoid physical damage to containers.

Always wash hands with soap and water after handling.

Work clothes should be laundered separately. Launder contaminated clothing before re-use.

Use good occupational work practice.

Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe

working conditions are maintained.

**Other Information:** Store in original containers.

Keep containers securely sealed.

No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area.

Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.

Observe manufacturer's storage and handling recommendations contained within this SDS.

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## Conditions for safe storage, including any incompatibilities

**Suitable Container:** Polyethylene or polypropylene container.

Packing as recommended by manufacturer.

Check all containers are clearly labelled and free from leaks.

Storage Incompatibility: Avoid reaction with oxidising agents, bases and strong reducing agents.

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













X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **Control Parameters**

## **Occupational Exposure Limits (OEL)**

## **INGREDIENT DATA**

| Source                          | Ingredient  | Material Name     | TWA                           | STEL              | Peak          | Notes         |
|---------------------------------|-------------|-------------------|-------------------------------|-------------------|---------------|---------------|
| Australia Exposure<br>Standards | Isopropanol | Isopropyl Alcohol | 400ppm / 983mg/m <sup>3</sup> | 1230mg/m³/ 500ppm | Not Available | Not Available |

## **Emergency Limits**

| Ingredient  | TEEL-1  | TEEL-2    | TEEL-3      |
|-------------|---------|-----------|-------------|
| Isopropanol | 400 ppm | 2000* ppm | 12000** ppm |

| Ingredient                                | Original IDLH | Revised IDLH  |
|---|---------------|---------------|
| 2-Ethylhexanol, Ethoxylated, Propoxylated | Not Available | Not Available |
| Isopropanol                               | 2,000 ppm     | Not Available |
| Benzalkonium Chloride                     | Not Available | Not Available |
| Water                                     | Not Available | Not Available |

## **Occupational Exposure Banding**

| Ingredient                                |  | Occupational Exposure Band Rating | Occupational Exposure Band Limit   |
|---|--|-----------------------------------|--|
| 2-Ethylhexanol, Ethoxylated, Propoxylated |  | E                                 | ≤ 0.1 ppm  |
| Benzalkonium Chloride                     |  | E ≤ 0.01 mg/m³                    |  |
| Notes:                                    | Occupational exposure banding is a process of assigning chemicals into specific categories or I based on a chemical's potency and the adverse health outcomes associated with exposure. The of this process is an occupational exposure band (OEB), which corresponds to a range of exposure practical to protect worker health. |                                   | tcomes associated with exposure. The output which corresponds to a range of exposure |

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## **Exposure Controls**

Appropriate Engineering Controls:

**Personal Protection:** 

General exhaust is adequate under normal operating conditions.









PPF GI OVE

PPE GOGGLES

PPE MASK

PPE SU

**Eye and Face Protection** 

Safety glasses with side shields.

Chemical goggles.

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. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

**Skin Protection:** 

**Hands/Feet Protection:** 

See Hand protection below

Wear chemical protective gloves, e.g. PVC.

Wear safety footwear or safety gumboots, e.g. Rubber

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.

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.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- Frequency and duration of contact,
- · Chemical resistance of glove material,
- Glove thickness and
- Dexterity

Select gloves tested 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 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

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As defined in ASTM F-739-96 in any application, gloves are rated as:

- Excellent when breakthrough time > 480 min
- Good when breakthrough time > 20 min
- Fair when breakthrough time < 20 min
- Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

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.

**Body Protection:** 

See Other protection below

Other Protection:

Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

## **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 10 x ES                      | Air-line*            | A-2                  | A-PAPR-2 ^             |
| up to 20 x ES                      | -                    | A-3                  | -                      |
| 20+ x ES                           | -                    | Air-line**           | -                      |

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

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = 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

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Not Available

Not Available

Not Available

#### ( SECTION 9 **PHYSICAL/CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Appearance: Clear liquid; mixes with water.

**Physical State:** Liquid Relative Density (Agua= 1): Not Available Odour: Not Available Partition Coefficient N-Octanol/Water: Not Available **Odour Threshold:** Not Available Auto-Ignition Temperature (°C): Not Available pH (as supplied) Not Available **Decomposition Temperature:** Not Available Melting Point/Freezing Not Available Viscosity (cSt): Not Available

Point (°C):

**Initial Boiling Point and Boiling** 

Range (°C):

Not Available

Flash Point (°C): Not Available **Evaporation Rate:** Flammability: **Upper Explosive Limit (%):** Lower Explosive Limit (%):

Vapour Pressure (kPa): Solubility in Water: Vapour Density (Air = 1): Not Available Not Available Not Available Not Available Not Available Miscible Not Available

Molecular Weight (g/mol): Taste: **Explosive Properties: Oxidising Properties:** 

Not Available Surface Tension (dyn/cm or mN/m): Not Available Volatile Component (%vol): Not Available Gas Group: Not Available pH as a Solution (1%): Not Available VOC g/L: Not Available

SECTION 10 STABILITY AND REACTIVITY

See section 7 Reactivity

**Chemical stability** Unstable in the presence of incompatible materials.

Product is considered stable.

Hazardous polymerisation will not occur.

**Possibility of Hazardous** 

Reactions

See section 7

**Conditions to Avoid:** See section 7 **Incompatible Materials:** See section 7 Hazardous decomposition See section 5

**Products:** 

## **TOXICOLOGICAL INFORMATION**

## **Information on Toxicological Effects**

Inhaled:

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.

Not normally a hazard due to non-volatile nature of product

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Ingestion

Accidental ingestion of the material may be damaging to the health of the individual.

**Skin Contact** 

There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.

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.

There is some evidence to suggest that this material can cause eye irritation and damage in some

Chronic Substance accumulation, in the human body, may occur and may cause some concern following re-

peated or long-term occupational exposure.

Ki-San:

Eve

**TOXICITY IRRITATION** Not Available Not Available

2-Ethylhexanol, Ethoxylated, **Propoxylated:** 

| TOXICITY                                      | IRRITATION    |
|---|---------------|
| Dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> | Not Available |
| Oral(Rat) LD50; >2000 mg/kg <sup>[2]</sup>    |               |

Isopropanol:

| TOXICITY   | IRRITATION                        |
|--|-----------------------------------|
| Dermal (rabbit) LD50: 21.026 mg/kg <sup>[1]</sup>  | Eye (rabbit): 10 mg - moderate    |
| Inhalation(Mouse) LC50; 27.2 mg/l4h <sup>[2]</sup> | Eye (rabbit): 100 mg - SEVERE     |
| Oral(Rabbit) LD50; 667 mg/kg <sup>[2]</sup>        | Eye (rabbit): 100mg/24hr-moderate |
|  | Skin (rabbit): 500 mg - mild      |

Benzalkonium Chloride:

| TOXICITY   | IRRITATION  |
|--|---|
| Dermal (rabbit) LD50: 3.708 mg/kg <sup>[1]</sup> | Eye: adverse effect observed (irreversible damage)[1] |
| Inhalation(Rat) LC50; 0.22 mg/l4h <sup>[1]</sup> | Skin: adverse effect observed (corrosive)[1]          |
| Oral(Rat) LD50; 795 mg/kg <sup>[1]</sup>         |   |

Water

| TOXICITY                                 | IRRITATION    |
|--|---------------|
| Oral(Rat) LD50; >90 mg/kg <sup>[2]</sup> | Not Available |

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

2-ETHYLHEXANOL. ETHOXYLATED. PROPOXYLATED:

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 ethyoxylates 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.

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As they cause less irritation, nonionic surfactants are often preferred to ionic surfactants in topical products. However, their tendency to auto-oxidise also increases their irritation. Due to their irritating effect it is difficult to diagnose allergic contact dermatitis (ACD) by patch testing.

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.

\* Typical values - Dow Chemical SDS Non-mutagenic for bacteria and/or yeast. (Akzo Nobel)

Isopropanol is irritating to the eyes, nose and throat but generally not to the skin, Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have \eported skin irritation. It can be absorbed from the

skin or when inhaled. Intentional swallowing is common particularly among alcoholics or suicide victims and also leads to fainting, breathing difficulty, nausea, vomiting and headache. In the absence of unconsciousness, recovery usually occurred.

Repeated doses may damage the kidneys. A decrease in the frequency of mating has been found in among animals, and newborns have been found to have a greater incidence of low birth weight. Tumours of the testes have been observed in the male rat.

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.

The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

For acid mists, aerosols, vapours

Test results suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Cells from the respiratory tract have not been examined in this respect. Mucous secretion may protect the cells of the airway from direct exposure to inhaled acidic mists (which also protects the stomach lining from the hydrochloric acid secreted there).

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.

Alkyldimethylbenzylammonium chlorides are in the list of dangerous substances of council directive, classified as "harmful in contact with skin and on ingestion", and "corrosive and very toxic to aquatic organisms". It can cause dose dependent skin and eye irritation with possible deterioration of vision, possible sensitisation in those with pre-existing eczema. It does not cause cancer, genetic defect, foetal or developmental abnormality.

For similar compound benzyl C12-18 alkyldimethyl ammonium chloride CAS RN 68391-01-5:

No significant acute toxicological data identified in literature search.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a nonallergic 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.

**ISOPROPANOL:** 

**Benzalkonium Chloride:** 

Ki-San & WATER: **ISOPROPANOL & BENZALKONIUM** CHLORIDE:

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Acute Toxicity
Skin Irritation/Corrosion
Serious Eye Damage/Irritation
Respiratory or Skin Sensitisation
Mutagenicity

Carcinogenicity
Reproductivity
STOT - Single Exposure
STOT - Repeated Exposure
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

Ki-San:

2-Ethylhexanol, Ethoxylated, Propoxylated:

Isopropanol:

| Endpoint      | Test Duration (hr) | Species       | Value         | Source        |
|---------------|--------------------|---------------|---------------|---------------|
| Not Available | Not Available      | Not Available | Not Available | Not Available |

| Test Duration (hr) | Species       | Value         | Source                                    |
|--------------------|---------------|---------------|---|
| Not Available      | Not Available | Not Available | Not Available                             |
|                    |               |               |   |
|                    | Not Available | , , ,         | Not Available Not Available Not Available |

| Endpoint  | Test Duration (hr) | Species                       | Value     | Source |
|-----------|--------------------|-------------------------------|-----------|--------|
| LC50      | 96                 | Fish                          | 4200mg/l  | 4      |
| EC50(ECx) | 24                 | Algae or other aquatic plants | 0.011mg/L | 4      |
| EC50      | 48                 | Crustacea                     | 7550mg/l  | 4      |
| EC50      | 72                 | Algae or other aquatic plants | >1000mg/l | 1      |
| EC50      | 96                 | Algae or other aquatic plants | >1000mg/l | 1      |

## **Benzalkonium Chloride:**

| Endpoint  | Test Duration (hr) | Species                       | Value     | Source |
|-----------|--------------------|-------------------------------|-----------|--------|
| EC10(ECx) | 96                 | Algae or other aquatic plants | 0.002mg/l | 2      |
| EC50      | 48                 | Crustacea                     | 0.016mg/l | 2      |
| LC50      | 96                 | Fish                          | 0.28mg/l  | 2      |
| EC50      | 72                 | Algae or other aquatic plants | 0.26mg/l  | 2      |
| EC50      | 96                 | Algae or other aquatic plants | 0.01mg/l  | 2      |

Water:

| Endpoint      | Test Duration (hr) | Species       | Value         | Source        |
|---------------|--------------------|---------------|---------------|---------------|
| Not Available | Not Available      | Not Available | Not Available | Not Available |
|               |                    |               |               |               |

Legend:

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

## **Persistence and Degradability**

| Ingredient  | Persistence: Water/Soil   | Persistence: Air         |
|-------------|---------------------------|--------------------------|
| Isopropanol | LOW (Half-life = 14 days) | LOW (Half-life = 3 days) |
| Water       | LOW                       | LOW                      |

## **Bioaccumulative Potential**

| Ingredient  | Bioaccumulation      |
|-------------|----------------------|
| Isopropanol | LOW (LogKOW = 0.05)  |
| Water       | LOW (LogKOW = -1.38) |

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## **Mobility in Soil**

| Ingredient  | Mobility          |
|-------------|-------------------|
| Isopropanol | HIGH (KOC = 1.06) |
| Water       | LOW (KOC = 14.3)  |

### **SECTION 13**

### **DISPOSAL CONSIDERATIONS**

## **Waste Treatment Methods**

**Product/Packaging Disposal:** 

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. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

DO NOT allow wash water from cleaning or process equipment to enter drains.

It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

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 licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and

destroyed.

## 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

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

| Product Name                              | Group         |
|---|---------------|
| 2-Ethylhexanol, Ethoxylated, Propoxylated | Not Available |
| Isopropanol                               | Not Available |
| Benzalkonium Chloride                     | Not Available |
| Water                                     | Not Available |

## Transport in bulk in accordance with the ICG Code

| Product Name                              | Ship Type     |
|---|---------------|
| 2-Ethylhexanol, Ethoxylated, Propoxylated | Not Available |
| Isopropanol                               | Not Available |
| Benzalkonium Chloride                     | Not Available |
| Water                                     | Not Available |

(SECTION 15)

## **REGULATORY INFORMATION**

Safety, health and environmental regulations / legislation specific for the substance or mixture 2-ethylhexanol, ethoxylated, propoxylated is found on the following regulatory lists

**Australian Inventory of Industrial Chemicals (AIIC)** 

Isopropanol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - HazardousChemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Benzalkonium Chloride is found on the following regulatory lists Australia Hazardous Chemical Information System (HCIS) -HazardousChemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Water is found on the following regulatory lists Australian Inventory of Industrial Chemicals (AIIC) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

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## **National Inventory Status**

| National Inventory                              | Status   |
|---|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes  |
| Canada - DSL                                    | Yes  |
| Canada - NDSL                                   | No (2-ethylhexanol, ethoxylated, propoxylated; isopropanol; benzalkonium chloride; water)  |
| China - IECSC                                   | Yes  |
| Europe - EINEC / ELINCS / NLP                   | No (2-ethylhexanol, ethoxylated, propoxylated)   |
| Japan - ENCS                                    | No (2-ethylhexanol, ethoxylated, propoxylated; benzalkonium chloride)  |
| Korea - KECI                                    | Yes  |
| New Zealand - NZIoC                             | Yes  |
| Philippines - PICCS                             | No (2-ethylhexanol, ethoxylated, propoxylated)   |
| USA - TSCA                                      | No (benzalkonium chloride)   |
| Taiwan - TCSI                                   | Yes  |
| Mexico - INSQ                                   | No (2-ethylhexanol, ethoxylated, propoxylated; benzalkonium chloride)  |
| Vietnam - NCI                                   | Yes  |
| Russia - FBEPH                                  | No (2-ethylhexanol, ethoxylated, propoxylated; benzalkonium chloride)  |
| 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 ingredientsin brackets) |

## SECTION 16 ) OTHE

## **OTHER INFORMATION**

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

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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

**Reason for Revision:** To bring to date

## **END OF SDS**