



## SAFETY DATA SHEET

### KAY SOLIDSENSE SANITIZER

#### Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : KAY SOLIDSENSE SANITIZER  
Other means of identification : Not applicable.  
Recommended use : Sanitizer  
Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.11 %

Company : Ecolab New Zealand  
2A Pacific Rise  
Mt. Wellington, Auckland New Zealand  
+64 7 958 2319

Emergency telephone number : 0800 243 622 (0800 CHEMCALL)  
+64 7 958 2372 (International)

Issuing date : 17.07.2023

#### Section: 2. HAZARDS IDENTIFICATION

##### GHS Classification

###### Product AS SOLD

Acute toxicity (Oral) : Category 3  
Acute toxicity (Dermal) : Category 3  
Skin corrosion/irritation : Category 1A  
Serious eye damage/eye irritation : Category 1  
Hazardous to the aquatic environment - acute hazard : Category 1  
Hazardous to the aquatic environment - chronic hazard : Category 1

###### Product AT USE DILUTION

Acute toxicity (Oral) : Category 4

##### GHS Label element

###### Product AS SOLD

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Toxic if swallowed or in contact with skin.  
Causes severe skin burns and eye damage.  
Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
Do not breathe dust. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

# SAFETY DATA SHEET

## KAY SOLIDSSENSE SANITIZER

### Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Collect spillage.

### Product AT USE DILUTION

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Harmful if swallowed.

Precautionary Statements : **Prevention:**

Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.

### Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

### Product AS SOLD

Other hazards : None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Urea	57-13-6	30 - 60
n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides	85409-23-0	10 - 30
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides	68391-01-5	10 - 30
Amines (incl. ethanolamines)	68391-04-8	1 - 2.5

### Product AT USE DILUTION

Chemical Name	CAS-No.	Concentration: (%)
n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides	85409-23-0	<= 0.1
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides	68391-01-5	<= 0.1

## Section: 4. FIRST AID MEASURES

### Product AS SOLD

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

## SAFETY DATA SHEET

### KAY SOLIDSSENSE SANITIZER

In case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
Protection of first-aiders	: If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	: Treat symptomatically.
Most important symptoms and effects, both acute and delayed	: See Section 11 for more detailed information on health effects and symptoms.

#### Product AT USE DILUTION

In case of eye contact	: Rinse with plenty of water.
In case of skin contact	: Rinse with plenty of water.
If swallowed	: Rinse mouth. Get medical attention if symptoms occur.
If inhaled	: Get medical attention if symptoms occur.

### Section: 5. FIREFIGHTING MEASURES

#### Product AS SOLD

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.
Specific hazards during firefighting	: Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx)
Special protective equipment for firefighters	: Use personal protective equipment.
Specific extinguishing methods	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.
Hazchem Code	: 2Z

### Section: 6. ACCIDENTAL RELEASE MEASURES

## SAFETY DATA SHEET

### KAY SOLIDSENSE SANITIZER

#### Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

#### Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### Section: 7. HANDLING AND STORAGE

#### Product AS SOLD

Advice on safe handling : Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

#### Product AT USE DILUTION

Advice on safe handling : Do not ingest. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

# SAFETY DATA SHEET

## KAY SOLIDSENSE SANITIZER

below occupational exposure standards.

### Personal protective equipment

- Eye protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hand protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Skin protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Respiratory protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.  
Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and maintenance of respiratory protective equipment as applicable.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Product AT USE DILUTION

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.  
Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and maintenance of respiratory protective equipment as applicable.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: Extruded solid.	liquid
Colour	: dark red	light pink
Odour	: slight	odourless
pH	: 6.0 - 9.0, (1 %)	6.0 - 9.0
Flash point	: Not applicable., Does not sustain combustion.	
Odour Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: no data available	
Evaporation rate	: no data available	
Flammability (solid, gas)	: Not applicable.	

## SAFETY DATA SHEET

### KAY SOLIDSENSE SANITIZER

Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 0.9 - 1.1
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: no data available
VOC	: no data available

### Section: 10. STABILITY AND REACTIVITY

#### Product AS SOLD

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NOx)

### Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

#### Potential Health Effects

#### Product AS SOLD

Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns.
Ingestion	: Toxic if swallowed. Causes digestive tract burns.
Inhalation	: May cause nose, throat, and lung irritation.

## SAFETY DATA SHEET

### KAY SOLIDSENSE SANITIZER

Chronic Exposure : Health injuries are not known or expected under normal use.

#### Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Harmful if swallowed.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

#### Product AT USE DILUTION

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No information available.

Inhalation : No symptoms known or expected.

#### Toxicity

##### Product AS SOLD

###### Product

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

#### Components

# SAFETY DATA SHEET

## KAY SOLIDSENSE SANITIZER

Acute inhalation toxicity : n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides  
4 h LC50 rat: > 0.054 mg/lTest atmosphere: dust/mist

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl  
ammonium chlorides  
LC50 rat: > 0.054 mg/lTest atmosphere: dust/mist

### Components

Acute dermal toxicity : Urea  
LD50 rat: 8,200 mg/kg

n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides  
LD50 rabbit: 2,300 mg/kg

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl  
ammonium chlorides  
LD50 rabbit: 2,300 mg/kg

## Section: 12. ECOLOGICAL INFORMATION

### Toxicity

#### Product AS SOLD

Environmental Effects : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

#### Product AT USE DILUTION

Environmental Effects : This product has no known ecotoxicological effects.

#### Product AS SOLD

##### Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

### Components

Toxicity to fish : Urea  
96 h LC50 Fish: 127.9 mg/l

n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides  
96 h LC50 Oncorhynchus mykiss (rainbow trout): 1.06 mg/l

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl  
ammonium chlorides  
96 h LC50 Oncorhynchus mykiss (rainbow trout): 0.064 mg/l  
Test substance: Information given is based on data obtained from similar substances.

Amines (incl. ethanolamines)  
96 h LC50 Danio rerio (zebra fish): 0.71 mg/l

### Components

Toxicity to daphnia and other aquatic invertebrates : n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides  
48 h EC50 Daphnia magna (Water flea): 0.0058 mg/l

# SAFETY DATA SHEET

## KAY SOLIDSSENSE SANITIZER

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides  
48 h EC50 Daphnia magna (Water flea): 0.0059 mg/l  
Test substance: Information given is based on data obtained from similar substances.

Amines (incl. ethanolamines)  
48 h EC50 Daphnia magna (Water flea): 0.056 mg/l

### Components

Toxicity to algae : n-Alkyl(68% C12, 32% C14) dimethylethylbenzyl ammonium chlorides  
72 h EC50 Pseudokirchneriella subcapitata (green algae): 0.0265 mg/l

Amines (incl. ethanolamines)  
72 h EC50 Desmodesmus subspicatus (green algae): 0.0165 mg/l

### Persistence and degradability

#### Product AT USE DILUTION

Not applicable - Biocide

#### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### Other adverse effects

no data available

## Section: 13. DISPOSAL CONSIDERATIONS

#### Product AS SOLD

Disposal methods : Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations Dispose of in accordance with local and national regulations.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

#### Product AT USE DILUTION

Disposal methods : Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations Dispose of in accordance with local and national regulations.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

## Section: 14. TRANSPORT INFORMATION

## SAFETY DATA SHEET

### KAY SOLIDSENSE SANITIZER

#### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (NZ\_DG)

Not dangerous goods

#### Sea transport (IMDG/IMO)

UN number : 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(quaternary ammonium compounds)  
Class : 9  
Packing group : III  
Marine pollutant : Yes

Special precautions for user : None

### Section: 15. REGULATORY INFORMATION

#### Product AS SOLD

HSNO Approval Number : HSR002530

HSNO Group Standard : Cleaning Products (Subsidiary Hazard) Group Standard 2020

#### The components of this product are reported in the following inventories:

##### United States TSCA Inventory :

All substances listed as active on the TSCA inventory

##### Canadian Domestic Substances List (DSL) :

This product contains one or several components listed in the Canadian NDSL.

##### Australia. Australian Industrial Chemicals Introduction Scheme (AICIS) :

On the inventory, or in compliance with the inventory

##### New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand :

On the inventory, or in compliance with the inventory

##### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

##### Korea. Korean Existing Chemicals Inventory (KECI) :

not determined

##### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

not determined

##### China Inventory of Existing Chemical Substances :

On the inventory, or in compliance with the inventory

##### Taiwan Chemical Substance Inventory :

not determined

# SAFETY DATA SHEET

## KAY SOLIDSSENSE SANITIZER

### Section: 16. OTHER INFORMATION

Issuing date : 17.07.2023  
Version : 1.1  
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.