

## **KEYSTONE APEX DISHMACHINE DETERGENT**

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : KEYSTONE APEX DISHMACHINE DETERGENT

Other means of identification : Not applicable

Recommended use : Machine Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.13 % - 0.26 %

Company : Ecolab Inc.

1 Ecolab Place

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency health

information

1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 10/28/2021

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

**Product AS SOLD** 

Skin corrosion : Category 1A Serious eye damage : Category 1

#### **Product AT USE DILUTION**

Not a hazardous substance or mixture.

#### **GHS** label elements

**Product AS SOLD** 

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:

Do not breathe dusts or mists. Wash skin thoroughly after handling.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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/ doctor. Wash contaminated

clothing before reuse.

Storage:

Store locked up.

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#### KEYSTONE APEX DISHMACHINE DETERGENT

Disposal:

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

**Product AT USE DILUTION** 

**Precautionary Statements** 

: Prevention:

Wash hands thoroughly after handling.

Response:

Get medical advice/ attention if you feel unwell.

Storage:

Store in accordance with local regulations.

**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 (%)

 Sodium Carbonate
 497-19-8
 60 - 100

 potassium hydroxide
 1310-58-3
 0.1 - 1

#### **Product AT USE DILUTION**

No hazardous ingredients

#### **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.

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.

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#### KEYSTONE APEX DISHMACHINE DETERGENT

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

#### **SECTION 5. FIRE-FIGHTING 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 fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

: 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.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### **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

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: No special environmental precautions required.

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**

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#### KEYSTONE APEX DISHMACHINE DETERGENT

**Product AS SOLD** 

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not

breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. 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. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

**Product AT USE DILUTION** 

Advice on safe handling : Wash hands after handling. In case of mechanical malfunction, or if in

contact with unknown dilution of product, wear full Personal Protective

Equipment (PPE). For personal protection see section 8.

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

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Product AS SOLD Ingredients with workplace control parameters

| Components          | CAS-No.   | Form of exposure | Permissible concentration | Basis     |
|---------------------|-----------|------------------|---------------------------|-----------|
| chlorine            | 7782-50-5 | TWA              | 0.1 ppm                   | ACGIH     |
|                     |           | STEL             | 0.4 ppm                   | ACGIH     |
|                     |           | Ceiling          | 0.5 ppm<br>1.45 mg/m3     | NIOSH REL |
|                     |           | С                | 1 ppm<br>3 mg/m3          | OSHA Z1   |
| potassium hydroxide | 1310-58-3 | Ceiling          | 2 mg/m3                   | ACGIH     |
|                     |           | Ceiling          | 2 mg/m3                   | NIOSH REL |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

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 : No personal respiratory protective equipment normally required.

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

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#### KEYSTONE APEX DISHMACHINE DETERGENT

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.

: No personal respiratory protective equipment normally required. Respiratory protection

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Product AS SOLD** 

: No data available

: No data available

**Appearance** : solid

Color : opaque, white Odor : Chlorine

pΗ : 11.1 - 11.8, (1 %)

Flash point : Not applicable Odor Threshold : No data available Melting point/freezing point : No data available

Initial boiling point and

boiling range

Evaporation rate

Flammability (solid, gas) : Not applicable

Upper explosion limit : No data available

Lower explosion limit No data available Vapor pressure : No data available Relative vapor density : No data available

Water solubility : soluble

Solubility in other solvents : No data available Partition coefficient: n-

octanol/water

Relative density

: No data available

: No data available

Autoignition temperature : No data available Thermal decomposition : No data available

Viscosity, kinematic : No data available Explosive properties : No data available Oxidizing properties : No data available

Molecular weight : No data available VOC : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

#### **Product AS SOLD**

913173-01 5/10 **Product AT USE DILUTION** 

liauid

colorless odorless

10.79 - 10.91

#### KEYSTONE APEX DISHMACHINE DETERGENT

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 : Acids

Bases

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be produced

such as:

Carbon oxides

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Eye contact, Skin contact

exposure

#### **Potential Health Effects**

**Product AS SOLD** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

: Causes digestive tract burns. Ingestion

Inhalation : May cause nose, throat, and lung irritation.

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

**Product AT USE DILUTION** 

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

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

Health injuries are not known or expected under normal use. Ingestion

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.

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#### KEYSTONE APEX DISHMACHINE DETERGENT

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

**Toxicity** 

**Product AS SOLD** 

**Product** 

Acute oral toxicity : Acute toxicity estimate : 3,680 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Skin corrosion/irritation : No data available Serious eye damage/eye : No data available

irritation

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

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Product AS SOLD** 

Environmental Effects : Harmful to aquatic life.

**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 : No data available

aquatic invertebrates

Toxicity to algae : No data available

Components

Toxicity to fish : Sodium Carbonate

96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l

Components

Toxicity to daphnia and other

a such is inverted and one

: Sodium Carbonate

aquatic invertebrates 48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l

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#### KEYSTONE APEX DISHMACHINE DETERGENT

#### Persistence and degradability

#### **Product AT USE DILUTION**

Readily biodegradable.

#### **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 ponds, waterways or ditches with chemical or

used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste

disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and

federal regulations.

RCRA - Resource : D002 (Corrosive)

Conservation and Recovery Authorization Act Hazardous

waste

Product AT USE DILUTION
Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

#### **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 (DOT)

Not dangerous goods

#### Sea transport (IMDG/IMO)

Not dangerous goods

#### **SECTION 15. REGULATORY INFORMATION**

#### **Product AS SOLD**

**EPCRA - Emergency Planning and Community Right-to-Know** 

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### **KEYSTONE APEX DISHMACHINE DETERGENT**

#### **CERCLA Reportable Quantity**

| Components          | CAS-No.   | Component RQ (lbs) | Calculated product RQ |
|---------------------|-----------|--------------------|-----------------------|
|                     |           |                    | (lbs)                 |
| potassium hydroxide | 1310-58-3 | 1000               | 176991                |

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.

SARA 313 : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation applies to this product.

| Chemical Name                          | CAS-No.    | Function       | List(s)        |
|--|------------|----------------|----------------|
| Sodium Carbonate                       | 497-19-8   | Cleaning Agent | Not Applicable |
| water                                  | 7732-18-5  | Processing Aid | Not Applicable |
| citric acid, trisodium salt, dihydrate | 6132-04-3  | Cleaning Agent | Not Applicable |
| Alcohol ethoxylate                     | 68439-51-0 | Cleaning Agent | Not Applicable |
| Nonionic surfactant                    | Withheld   | Cleaning Agent | Not Applicable |
| Anionic Polymer                        | Withheld   | Cleaning Agent | Not Applicable |
| potassium hydroxide                    | 1310-58-3  | Processing Aid | Not Applicable |
| Carboxylate                            | Withheld   | Cleaning Agent | Not Applicable |

<sup>\*</sup>refer to ecolab.com/sds for electronic links to designated lists

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

#### Switzerland. New notified substances and declared preparations :

not determined

#### 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 Chemical Substances:

not determined

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

not determined

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#### **KEYSTONE APEX DISHMACHINE DETERGENT**

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

not determined

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

not determined

#### China. Inventory of Existing Chemical Substances in China (IECSC):

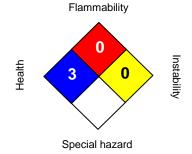
not determined

#### Taiwan Chemical Substance Inventory (TCSI):

On the inventory, or in compliance with the inventory

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

## Product AS SOLD NFPA:

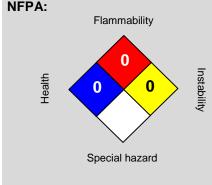


#### HMIS III:

| HEALTH          | 3 |
|-----------------|---|
| FLAMMABILITY    | 0 |
| PHYSICAL HAZARD | 0 |

- 0 = not significant, 1 = Slight,
- 2 = Moderate, 3 = High
- 4 = Extreme, \* = Chronic

## Product AT USE DILUTION



#### HMIS III:

| HEALTH          | 0 |
|-----------------|---|
| FLAMMABILITY    | 0 |
| PHYSICAL HAZARD | 0 |

- 0 = not significant, 1 = Slight,
- 2 = Moderate, 3 = High
- 4 = Extreme, \* = Chronic

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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.

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