SAFETY DATA SHEET

DISHWASHING LIQUID

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DISHWASHING LIQUID
Other means of identification : Not applicable
Recommended use : Manual Warewashing Detergent
Restrictions on use : Reserved for industrial and professional use.
Product dilution information : 0.049 % - 1.37 %

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 : 03/09/2023

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Product AS SOLD
Eye irritation : Category 2B

Product AT USE DILUTION
Not a hazardous substance or mixture.

GHS label elements
Product AS SOLD
Signal Word : Warning
Hazard Statements : Causes eye irritation.
Precautionary Statements : Prevention:
Wash skin thoroughly after handling.
Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

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Product AS SOLD
Pure substance/mixture : Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium chloride</td>
<td>7647-14-5</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Secondary Alkanesulphonates</td>
<td>68439-57-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium poly(oxyethylene) dodecyl ether sulfate</td>
<td>68585-34-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>amines, coco alkyldimethyl, n-oxides</td>
<td>61788-90-7</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

Product AT USE DILUTION
No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD
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.
Protection of first-aiders : No special precautions are necessary for first aid responders.
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. 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
- Nitrogen oxides (NOx)
- Sulfur oxides
SAFETY DATA SHEET

DISHWASHING LIQUID

Special protective equipment for fire-fighters: 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD
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.

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

Product AS SOLD
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.

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
DISHWASHING LIQUID

**Product AS SOLD**

**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

| 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. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. |

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**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. |

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

| Appearance | liquid | Product AS SOLD |
| Color | clear, dark blue | Product AT USE DILUTION |
| Odor | Floral | light blue |
| pH | 7.5 - 10.0, (100 %) | Floral |
| Flash point | Not applicable | 6.64 - 7.15 |
| Odor Threshold | No data available | |
| Melting point/freezing point | No data available | |
| Initial boiling point and boiling range | > 100 °C | |
| Evaporation rate | No data available | |
| Flammability (solid, gas) | Not applicable | |
| Upper explosion limit | No data available | |
| Lower explosion limit | No data available | |
| Vapor pressure | No data available | |
SAFETY DATA SHEET

DISHWASHING LIQUID

Relative vapor density : No data available
Relative density : 1.037 - 1.057
Water solubility : soluble
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : 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 : 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)
Sulfur oxides

SECTION 11. TOXICOCLOGICAL INFORMATION

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

Potential Health Effects

Product AS SOLD
Eyes : Causes eye irritation.
Skin : Health injuries are not known or expected under normal use.
Ingestion : Health injuries are not known or expected under normal use.
Inhalation : Health injuries are not known or expected under normal use.
Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

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DISHWASHING LIQUID

<table>
<thead>
<tr>
<th>Eyes</th>
<th>: Health injuries are not known or expected under normal use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>: Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>: Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>: Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td>Chronic Exposure</td>
<td>: Health injuries are not known or expected under normal use.</td>
</tr>
</tbody>
</table>

Experience with human exposure

**Product AS SOLD**

**Eye contact**

: Redness, Irritation

**Skin contact**

: No symptoms known or expected.

**Ingestion**

: No symptoms known or expected.

**Inhalation**

: No symptoms known or expected.

**Product AT USE DILUTION**

**Eye contact**

: No symptoms known or expected.

**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 : > 5,000 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 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

DISHWASHING LIQUID

Acute inhalation toxicity : Secondary Alkanesulphonates
4 h LC50 Rat: > 52 mg/l
Test atmosphere: dust/mist

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product AS SOLD
Environmental Effects : Harmful to aquatic life with long lasting effects. Toxic 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 aquatic invertebrates : No data available
Toxicity to algae : No data available

Components
Toxicity to fish : sodium chloride
96 h LC50 Lepomis macrochirus (Bluegill sunfish): 5,840 mg/l
Secondary Alkanesulphonates
96 h LC50 Danio rerio (zebra fish): 4.2 mg/l
Sodium poly(oxyethylene) dodecyl ether sulfate
96 h LC50 Fish: 28 mg/l

Components
Toxicity to daphnia and other aquatic invertebrates : sodium chloride
48 h EC50 Daphnia magna (Water flea): 4,136 mg/l
Secondary Alkanesulphonates
48 h EC50 Ceriodaphnia dubia (water flea): 4.53 mg/l

Components
Toxicity to algae : Secondary Alkanesulphonates
72 h EC50 Skeletonema costatum (marine diatom): 5.2 mg/l

Persistence and degradability

Product AT USE DILUTION
Biodegradable

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects
No data available
SAFETY DATA SHEET

DISHWASHING LIQUID

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 re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Function</th>
<th>List(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>Diluent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Secondary Alkanesulphonates</td>
<td>68439-57-6</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>sodium chloride</td>
<td>7647-14-5</td>
<td>Processing Aid</td>
<td></td>
</tr>
<tr>
<td>Sodium poly(oxyethylene) dodecyl ether sulfate</td>
<td>68585-34-2</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Dodecylidimethylamine oxide</td>
<td>1643-20-5</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Anionic surfactant</td>
<td>Withheld</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Nonionic surfactant</td>
<td>Withheld</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Limonene</td>
<td>5989-27-5</td>
<td>Fragrance</td>
<td>FRA</td>
</tr>
<tr>
<td>3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate</td>
<td>17511-60-3</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>3,7-dimethyloct-6-enenitrile</td>
<td>51566-62-2</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Beta-Pinene</td>
<td>127-91-3</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>terpinolene</td>
<td>586-62-9</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>phenethyl alcohol</td>
<td>60-12-8</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>3-cyclohexene-1-methanol,.alpha,.alpha,.4-trimethyl-</td>
<td>98-55-5</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>p-mentha-1,4-diene</td>
<td>99-85-4</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>solvents /additives</td>
<td>123-68-2</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Benzene, 1-methyl-4-(1-methylethyl)-</td>
<td>99-87-6</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>glutaraldehyde</td>
<td>111-30-8</td>
<td>Biocide</td>
<td>8, 20</td>
</tr>
<tr>
<td>Colorant</td>
<td>Withheld</td>
<td>Dye</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

*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) : All components of this product are on the Canadian DSL

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 : On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory
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DISHWASHING LIQUID

Philippines Inventory of Chemicals and Chemical Substances (PICCS):
On the inventory, or in compliance with the inventory.

China. Inventory of Existing Chemical Substances in China (IECSC):
On the inventory, or in compliance with the inventory.

Taiwan Chemical Substance Inventory (TCSI):
On the inventory, or in compliance with the inventory.

SECTION 16. OTHER INFORMATION

Product AS SOLD
NFPA:  
HMIS III:

![Flammability Diagram]

Health 0 0

Flammability

Instability

Special hazard

HEALTH 1

FLAMMABILITY 0

PHYSICAL HAZARD 0

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

Product AT USE DILUTION
NFPA:  
HMIS III:

![Flammability Diagram]

Health 0 0

Flammability

Instability

Special hazard

HEALTH 0

FLAMMABILITY 0

PHYSICAL HAZARD 0

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

Issuing date: 03/09/2023
Version: 1.2
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.