SAFETY DATA SHEET

A-456 II DISINFECTANT CLEANER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : A-456 II DISINFECTANT CLEANER
Other means of identification : Not applicable
Recommended use : Cleaner and disinfectant
Restrictions on use : Reserved for industrial and professional use.
Product dilution information : 0.39 % - 1.56 %

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 : 06/19/2019

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD
Acute toxicity (Oral) : Category 4
Acute toxicity (Dermal) : Category 4
Skin corrosion/Irritation : Category 1A
Serious eye damage : Category 1

Product AT USE DILUTION
Acute toxicity (Dermal) : Category 4
Serious eye damage/eye irritation : Category 2B

GHS label elements

Product AS SOLD
Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/ face protection.
Response:
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
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 victim to fresh air and keep at rest in a position...
comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. 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.

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

Product AT USE DILUTION
Hazard Statements: Harmful in contact with skin. Causes eye irritation.

Precautionary Statements:
Prevention: Wash skin thoroughly after handling.
Response:
IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octyl decyl dimethyl ammonium chloride</td>
<td>32426-11-2</td>
<td>6.51</td>
</tr>
<tr>
<td>Dioctyl dimethyl ammonium chloride</td>
<td>5538-94-3</td>
<td>2.604</td>
</tr>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>3.906</td>
</tr>
<tr>
<td>n-alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>8.68</td>
</tr>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>68439-46-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>ethylenediamine tetraacetate</td>
<td>64-02-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td>disodium metasilicate</td>
<td>6834-92-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Proprietary Ingredient</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

Product AT USE DILUTION

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octyl decyl dimethyl ammonium chloride</td>
<td>32426-11-2</td>
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</tr>
<tr>
<td>Dioctyl dimethyl ammonium chloride</td>
<td>5538-94-3</td>
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<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>0.0609</td>
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<tr>
<td>n-alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>0.1354</td>
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<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>68439-46-3</td>
<td>0 - 0.1</td>
</tr>
</tbody>
</table>

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. Use a mild soap if available. 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: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops and persists.

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)

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
SAFETY DATA SHEET
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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:
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:
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 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:
Do not store near acids. 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 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.

SECTION 8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Product AS SOLD
Ingredients with workplace control parameters
SAFETY DATA SHEET

A-456 II DISINFECTANT CLEANER

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Form of exposure</th>
<th>Permissible concentration</th>
<th>Basis</th>
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<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m3</td>
<td>NIOSH REL</td>
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<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m3</td>
<td>OSHA Z1</td>
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</table>

Engineering measures: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

Eye protection: Wear eye protection/face protection.

Hand protection: Wear the following personal protective equipment:

- Rubber gloves
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
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<tr>
<td>Color</td>
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<tr>
<td>Odor</td>
<td>Disinfectants</td>
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<td>pH</td>
<td>12.0 - 13.5, (100 %)</td>
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<td>Flash point</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
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<td>Disinfectants</td>
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<td>10.54 - 10.93</td>
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SAFETY DATA SHEET

A-456 II DISINFECTANT CLEANER

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<td>Flammability (solid, gas)</td>
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<td>Upper explosion limit</td>
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<td>Solubility in other solvents</td>
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<td>Partition coefficient: n-octanol/water</td>
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<td>Autoignition temperature</td>
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<td>Thermal decomposition</td>
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<td>Viscosity, kinematic</td>
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<td>Explosive properties</td>
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<td>Oxidizing properties</td>
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<td>Molecular weight</td>
<td>No data available</td>
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<td>VOC</td>
<td>No data available</td>
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</tbody>
</table>

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**: Acids

**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**: Inhalation, Eye contact, Skin contact

**Potential Health Effects**

**Product AS SOLD**

**Eyes**: Causes serious eye damage.
S A F E T Y  D A T A  S H E E T

A-456 II DISINFECTANT CLEANER

Skin : Causes severe skin burns. Harmful in contact with skin.

Ingestion : Harmful if swallowed. Causes digestive tract burns.

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

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

Product AT USE DILUTION

Eyes : Causes eye irritation.

Skin : Harmful in contact with skin.

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.

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 : Redness, Irritation

Skin contact : No information available.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD

Product

Acute oral toxicity : Acute toxicity estimate : 1,316 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : Acute toxicity estimate : > 1,000 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
SAFETY DATA SHEET
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Teratogenicity : No data available
STOT-single exposure : No data available
STOT-repeated exposure : No data available
Aspiration toxicity : No data available

Components
Acute inhalation toxicity : Octyl decyl dimethyl ammonium chloride
4 h LC50 Rat: 0.07 mg/l
Test atmosphere: dust/mist

Dioctyl dimethyl ammonium chloride
4 h LC50 Rat: 0.07 mg/l
Test atmosphere: dust/mist

Didecyl Dimethyl Ammonium Chloride
4 h LC50 Rat: 0.07 mg/l
Test atmosphere: dust/mist

n-alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride
4 h LC50 Rat: 0.054 mg/l
Test atmosphere: dust/mist

ethanol
4 h LC50 Rat: 117 mg/l
Test atmosphere: vapor

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD
Ecotoxicity
Environmental Effects : This product has no known ecotoxicological effects.

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 : Octyl decyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

Dioctyl dimethyl ammonium chloride
96 h LC50 Oncorhynchus mykiss (rainbow trout): 0.35 mg/l

Didecyl Dimethyl Ammonium Chloride
96 h LC50 Fish: 1 mg/l

Alcohols, C9-11, ethoxylated
96 h LC50 Oncorhynchus mykiss (rainbow trout): 5 mg/l

ethanol
96 h LC50 Pimephales promelas: > 100 mg/l
Components
Toxicity to daphnia and other aquatic invertebrates : Dioctyl dimethyl ammonium chloride
96 h LC50 Americamysis bahia: 0.073 mg/l
n-alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride
48 h EC50 Daphnia magna (Water flea): 0.016 mg/l
Alcohols, C9-11, ethoxylated
48 h EC50 Daphnia magna (Water flea): 2.5 mg/l

Components
Toxicity to algae : Dioctyl dimethyl ammonium chloride
72 h EC50 Pseudokirchneriella subcapitata (algae): 0.122 mg/l
Alcohols, C9-11, ethoxylated
96 h EC50 Pseudokirchneriella subcapitata (algae): 1.4 mg/l

Persistence and degradability
Product AS SOLD
Not applicable - Biocide

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 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.

RCRA - Resource Conservation and Recovery : D002 (Corrosive)
Authorization Act Hazardous waste

**Product AT USE DILUTION**

**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.

**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)**

| UN number | 1760 |
| Description of the goods | Corrosive liquids, n.o.s. (quaternary ammonium compound) |
| Class | 8 |
| Packing group | III |
| Environmentally hazardous | no |

**Sea transport (IMDG/IMO)**

| UN number | 1760 |
| Description of the goods | CORROSIVE LIQUID, N.O.S. (quaternary ammonium compound) |
| Class | 8 |
| Packing group | III |
| Marine pollutant | yes |

**SECTION 15. REGULATORY INFORMATION**

**Product AS SOLD**

**EPA Registration number**: 6836-78-1677

**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**: Acute toxicity (any route of exposure) Serious eye damage or eye irritation
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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>Quaternary ammonium compounds, di-C8-10-alkyl dimethyl, chlorides</td>
<td>68424-95-3</td>
<td>Biocide</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>n-alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>Biocide</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>68439-46-3</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>ethylenediamine tetraacetate</td>
<td>64-02-8</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Dioctyl dimethyl ammonium chloride</td>
<td>5538-94-3</td>
<td>Biocide</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>disodium metasilicate</td>
<td>6834-92-0</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Fragrance Ingredient(s)</td>
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<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
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<td>Limonene</td>
<td>5989-27-5</td>
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<td>FRA</td>
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<tr>
<td>Colorant</td>
<td>Withheld</td>
<td>Dye</td>
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<tr>
<td>2-methylpentane-2,4-diol</td>
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<td>Coumarin</td>
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<td>FRA</td>
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<tr>
<td>Colorant</td>
<td>Withheld</td>
<td>Dye</td>
<td>Not Applicable</td>
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</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 Inventory of Chemical Substances (AICS) : not determined

New Zealand. Inventory of Chemical Substances : 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) : On the inventory, or in compliance with the inventory
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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) : not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD
NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
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HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

Product AT USE DILUTION
NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
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<td>0</td>
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HMIS III:

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</tbody>
</table>

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

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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.

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