# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>QC 54 PEROXIDE GLASS AND SURFACE CLEANER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Surface cleaner</td>
</tr>
<tr>
<td>Restrictions on use</td>
<td>Reserved for industrial and professional use.</td>
</tr>
<tr>
<td>Product dilution information</td>
<td>0.78 % - 3.03 %</td>
</tr>
<tr>
<td>Company</td>
<td>Ecolab Inc.</td>
</tr>
<tr>
<td></td>
<td>1 Ecolab Place</td>
</tr>
<tr>
<td></td>
<td>St. Paul, Minnesota USA 55102</td>
</tr>
<tr>
<td></td>
<td>1-800-352-5326</td>
</tr>
<tr>
<td>Emergency health information</td>
<td>1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)</td>
</tr>
<tr>
<td>Issuing date</td>
<td>06/27/2019</td>
</tr>
</tbody>
</table>

# SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

**Product AS SOLD**

Eye irritation : Category 2A

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS label elements**

**Product AS SOLD**

Hazard pictograms :

- ! signal word: Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements :

- **Prevention:** Wash skin thoroughly after handling. Wear eye protection/ face protection.
- **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:**
SAFETY DATA SHEET

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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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>d-glucopyranose, oligomeric, decyl octyl glycosides</td>
<td>68515-73-1</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>3</td>
</tr>
<tr>
<td>C10-16 Polyglycoside</td>
<td>110615-47-9</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 : 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.

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 : 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. FIRE-FIGHTING MEASURES

Product AS SOLD
Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing : None known.
SAFETY DATA SHEET

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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 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: Avoid contact with skin and eyes. 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: 15 °C to 40 °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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Form of exposure</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>TWA</td>
<td>1 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1.4 mg/m3</td>
<td>OSHA Z1</td>
</tr>
</tbody>
</table>

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

Personal protective equipment

Eye protection: Safety glasses with side-shields

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. Wash face, hands and any exposed skin thoroughly after handling.

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></th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>clear, yellow</td>
<td>yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>sweet</td>
<td>Floral</td>
</tr>
<tr>
<td>pH</td>
<td>4.3 - 5.0, (100 %)</td>
<td>6.3 - 7.0</td>
</tr>
</tbody>
</table>
Flash point: Not applicable, Does not sustain combustion.
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): No data available
Upper explosion limit: No data available
Lower explosion limit: No data available
Vapor pressure: No data available
Relative vapor density: No data available
Relative density: 1.027 - 1.042
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: yes
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: Contamination may result in dangerous pressure increases - closed containers may rupture.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: None known.
Incompatible materials: 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 exposure: Inhalation, Eye contact, Skin contact

Potential Health Effects
## SAFETY DATA SHEET

### QC 54 PEROXIDE GLASS AND SURFACE CLEANER

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes                  : Causes serious eye irritation.</td>
<td></td>
</tr>
<tr>
<td>Skin                  : Health injuries are not known or expected under normal use.</td>
<td></td>
</tr>
<tr>
<td>Ingestion             : Health injuries are not known or expected under normal use.</td>
<td></td>
</tr>
<tr>
<td>Inhalation            : Health injuries are not known or expected under normal use.</td>
<td></td>
</tr>
<tr>
<td>Chronic Exposure      : Health injuries are not known or expected under normal use.</td>
<td></td>
</tr>
</tbody>
</table>

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

### Experience with human exposure

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact           : Redness, Pain, Irritation</td>
<td></td>
</tr>
<tr>
<td>Skin contact          : No symptoms known or expected.</td>
<td></td>
</tr>
<tr>
<td>Ingestion             : No symptoms known or expected.</td>
<td></td>
</tr>
<tr>
<td>Inhalation            : No symptoms known or expected.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product AT USE DILUTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact             : No symptoms known or expected.</td>
<td></td>
</tr>
<tr>
<td>Skin contact            : No symptoms known or expected.</td>
<td></td>
</tr>
<tr>
<td>Ingestion               : No symptoms known or expected.</td>
<td></td>
</tr>
<tr>
<td>Inhalation              : No symptoms known or expected.</td>
<td></td>
</tr>
</tbody>
</table>

### Toxicity

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity : Acute toxicity estimate : &gt; 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Acute inhalation toxicity : 4 h Acute toxicity estimate : &gt; 200 mg/l</td>
<td></td>
</tr>
<tr>
<td>Test atmosphere: vapor</td>
<td></td>
</tr>
<tr>
<td>Acute dermal toxicity : No data available</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation : No data available</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

QC 54 PEROXIDE GLASS AND SURFACE CLEANER

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
Acute dermal toxicity : d-glucopyranose, oligomeric, decyl octyl glycosides
LD50 Rabbit: > 2,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD
Ecotoxicity
Environmental Effects : Harmful to aquatic life.

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 : C10-16 Polyglycoside
96 h LC50 Fish: 5 mg/l

Components
Toxicity to algae : d-glucopyranose, oligomeric, decyl octyl glycosides
72 h EC50: 18 mg/l
Hydrogen peroxide
72 h EC50: 1.38 mg/l

Persistence and degradability
Product AS SOLD
Readily biodegradable.

Product AT USE DILUTION
No data available

Bioaccumulative potential
No data available

Mobility in soil
SAFETY DATA SHEET
QC 54 PEROXIDE GLASS AND SURFACE CLEANER

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.

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: The following components are subject to reporting levels established by SARA Title III, Section 302:
- Hydrogen peroxide: 7722-84-1 1 - 5 %
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>d-glucopyranose, oligomeric, decyl octyl glycosides</td>
<td>68515-73-1</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>C10-16 Polyglycoside</td>
<td>110615-47-9</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Chelating agent</td>
<td>Withheld</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Organic acid</td>
<td>Withheld</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Fragrance Ingredient(s)</td>
<td>Not Available</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Colorant</td>
<td>Withheld</td>
<td>Dye</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Nonionic surfactant</td>
<td>Withheld</td>
<td>Cleaning Agent</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 Inventory of Chemical Substances (AICS)**: On the inventory, or in compliance with the inventory
- **New Zealand. Inventory of Chemical Substances**: On the inventory, or in compliance with the inventory
- **Japan. ENCS - Existing and New Chemical Substances Inventory**: On the inventory, or in compliance with the inventory
- **Korea. Korean Existing Chemicals Inventory (KECI)**: not determined
- **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)**: not determined

**SECTION 16. OTHER INFORMATION**
Product AS SOLD
NFPA:

HMIS III:

Product AT USE DILUTION
NFPA:

HMIS III:

Issuing date : 06/27/2019
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.