SAFETY DATA SHEET

Lighthouse Bio-based Glass & Mirror Cleaner with Anti-Fog

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Lighthouse Bio-based Glass & Mirror Cleaner with Anti-Fog
GENERAL USE: Hard surface cleaner
PRODUCT DESCRIPTION: Glass & Mirror Cleaner
CHEMICAL FAMILY: Mixture

MANUFACTURER
Lighthouse for the Blind and Visually Impaired
1155 Market Street, 10th Floor
San Francisco, CA 94103
Customer Service: 415-431-1481

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS
Not classified as a dangerous substance / mixture according to GHS standards.

GHS LABEL
Read label before use.

PRECAUTIONARY STATEMENTS
General:
Individuals with sensitive skin should wear gloves when handling.
Wash hands before eating and wash before reuse.
Substance may be harmful if swallowed.

POTENTIAL HEALTH EFFECTS
EYES: Mildly irritating to the eyes.
SKIN: Prolonged or repeated contact may cause skin irritation.
SKIN ABSORPTION: None Expected.
INGESTION: Nausea, diarrhea, gastrointestinal irritation
INHALATION: Can irritate mouth, throat.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>~ 75 - 85</td>
<td>7732-18-5</td>
</tr>
<tr>
<td>Alkyl Polyglycoside</td>
<td>~ 5 - 15</td>
<td>68515-73-1</td>
</tr>
<tr>
<td>Tripropylene Glycol Monobutyl Ether</td>
<td>~ 2 - 8</td>
<td>55934-93-5</td>
</tr>
<tr>
<td>Sodium iminodisuccinate</td>
<td>~ 2 - 5</td>
<td>144538-83-0</td>
</tr>
<tr>
<td>Surfactant Blend</td>
<td>~ 2 - 5</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

INHALATION: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation, redness, watering eyes
SKIN: Irritation, defatting and drying out skin.
SKIN ABSORPTION: None Expected.
INGESTION: Nausea, diarrhea, gastrointestinal irritation
INHALATION: Can irritate mouth, throat.

ACUTE EFFECTS: None known.
CHRONIC EFFECTS: None known.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: None
EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, sulfur
FIRE FIGHTING PROCEDURES: Fight fire with normal precautions from a reasonable distance.
FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Pick up wash liquid with additional absorbent and place in a disposable container.
LARGE SPILL: Dike area in front of spill and contain for appropriate disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Not Established
LAND SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.
AIR SPILL: None Expected.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use good industrial practice.
HANDLING: Individuals with sensitive skin should wear gloves when handling.
STORAGE: Store in a well-ventilated place. Keep cool.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Eye protection can mitigate potential irritation from mist / spray.
SKIN: Individuals with sensitive skin should wear gloves when handling.
RESPIRATORY: No special requirements
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Flash Point (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tripropylene Glycol Monobutyl Ether</td>
<td>277</td>
</tr>
</tbody>
</table>

**PHYSICAL STATE:** Clear liquid

**ODOR:** Odor: Mild

**COLOR:** Blue

**pH:** ~ 8 to 9

**PERCENT VOLATILE:** 85 - 90

**FLASH POINT AND METHOD:** None to boiling

**FLAMMABLE LIMITS:** 0 to 0

**AUTOIGNITION TEMPERATURE:** Not yet Determined

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** Not Established

**BOILING POINT:** (210°F) to (220°F)

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** Not yet Determined

**SPECIFIC GRAVITY:** ~ 1 to 1.03

(VOC): Meets CARB LVP-VOC for VOC exempt status.

10. STABILITY AND REACTIVITY

**REACTIVITY:** None Expected.

**HAZARDOUS POLYMERIZATION:** Will not occur

**STABILITY:** Stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Will not occur

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, nitrogen, sulfur

**INCOMPATIBLE MATERIALS:** Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ORAL LD$_{50}$</th>
<th>DERMAL LD$_{50}$</th>
</tr>
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<tbody>
<tr>
<td>Tripropylene Glycol Monobutyl Ether</td>
<td>2600 to 3100</td>
<td>&gt; 2000</td>
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**ORAL LD$_{50}$:** ~

**INHALATION LC$_{50}$:** Not yet Determined

12. ECOLOGICAL INFORMATION
Lighthouse Bio-based Glass & Mirror Cleaner with Anti-Fog

ECOTOXICOLOGICAL INFORMATION: Expected to biodegrade
BIOACCUMULATION/ACCUMULATION: Not yet Determined

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Always check with local authorities regarding disposal of chemical products
FOR LARGE SPILLS: Dike area in front of spill and contain for appropriate disposal.
EMPTY CONTAINER: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME: Compounds, cleaning liquid, NOT DOT Regulated

15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
311/312 HAZARD CATEGORIES: None
313 REPORTABLE INGREDIENTS: None

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)
CERCLA REGULATORY: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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TSCA STATUS: All components are listed on the TSCA inventory
CALIFORNIA PROPOSITION 65: No components listed

16. OTHER INFORMATION

PREPARED BY: G.Westlund   Date Revised: 02/12/2019
REVISION SUMMARY: This SDS replaces the 12/17/2018 SDS.
Lighthouse Bio-based Glass & Mirror Cleaner with Anti-Fog

MANUFACTURER DISCLAIMER: The information contained is based upon our knowledge of the product at the date of publishing. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the handlers of the product to pass on to any subsequent persons who will come in contact with the product (usage, storage, cleaning of containers, other processes) the totality of information contained in this safety data sheet and necessary for safety at work, and for protection of health and environment.