SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
   - Product form: Mixture
   - Trade name: Glass-Klenz
   - Product code: 1114

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses
   - Industrial/Professional use spec: For industrial and institutional use only. Not for home use.
   - Use of the substance/mixture: Glassware Detergent

1.2.2. Uses advised against
   - No additional information available.

1.3. Details of the supplier of the safety data sheet
   - Manufacturer:
     STERIS Corporation
     P. O. Box 147, St. Louis, MO 63166, US
     Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)
     US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)
   - Supplier:
     STERIS Ireland Limited
     IDA Business and Technology Park
     Tullamore
     County Offaly
     R35 X865
     Ireland.
     Product/Technical Information Phone No: +44 (0) 116 276 8636
     Email: asksteris_msds@steris.com

1.4. Emergency telephone number
   - Emergency number: +44 (0) 1895 622 639

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   - Classification according to Regulation (EC) No. 1272/2008 [CLP]
     - Skin Corr./Irrit. 3: H316
     - Eye Dam. 2B: H320
     - Full text of H-phrases: see Section 16.

2.2. Label elements
   - Adverse physicochemical, human health and environmental effects
     - No additional information available.

2.3. Other hazards
   - No additional information available.
SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable.

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrasodium EDTA</td>
<td>(CAS No) 64-02-8 (EC no) 200-573-9 (EC index no) 607-428-99-2 (REACH No) 01-2118486762-27-0018</td>
<td>10 - 30</td>
<td>Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
First-aid measures after skin contact : Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Give water to drink if victim completely conscious/alert. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after eye contact : Causes eye irritation.
Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure. May cause irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters
Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures : Stop leak if safe to do so. Avoid contact with skin, eyes and clothes.

6.1.1. For non-emergency personnel
Protective equipment : Wear suitable protective clothing.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
# Glass-Klenz Glassware Detergent Safety Data Sheet

according to Regulation (EC) No. 453/2010

## 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up**

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Local authorities should be advised if significant spillages cannot be contained. Small spillages: Spills may be picked up with a mop and followed by a water rinse. Small spills may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Precautions for safe handling**

Read label before use. Product for industrial use only. Avoid breathing dust, mist or spray. Avoid contact with skin and eyes. Never return unused material to original container.

**Hygiene measures**

Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping. Do not eat, drink or smoke when using this product. Wash contaminated clothing prior to re-use. Separate working clothes from town clothes. Launder separately.

### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures**

Comply with applicable regulations. A washing facility/water for eye and skin cleaning purposes should be present. Provide adequate ventilation.

**Storage conditions**

Keep out of reach of children. Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Incompatible materials**

Strong acid. Oxidizing agent. Soft metals such as aluminum. May react with soft metals to evolve flammable hydrogen gas.

**Storage area**

Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

No additional information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available.

### 8.2. Exposure controls

**Appropriate engineering controls**

Emergency eye wash fountains and safety showers should be available in the event of any potential exposure. Ensure adequate ventilation.

**Personal protective equipment**

Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective clothing, Gloves. Safety glasses.

**Hand protection**

Wear rubber or nitrile gloves.

**Eye protection**

Wear chemical goggles or safety glasses.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. Work in well-ventilated zones or use proper respiratory protection.

**Environmental exposure controls**

Avoid discharge to the environment.

**Other information**

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state**

Liquid

**Appearance**

Clear

**Colour**

Orange

**Odour**

Mild chemical odour

**Odour threshold**

No data available

**pH**

13.14

**pH solution**

10.9 - 11.6 (1% solution)

**Relative evaporation rate (butyl acetate=1)**

No data available

**Melting point**

No data available

**Freezing point**

No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 1.14 g/ml @ 25°C
Solubility : Water: completely soluble
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available.

9.2. Other information
No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available.

10.2. Chemical stability
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions
Hazardous polymerisation does not occur.

10.4. Conditions to avoid
No additional information available.

10.5. Incompatible materials
Strong acid. Oxidizing agent. Soft metals such as aluminum.

10.6. Hazardous decomposition products
May react with soft metals to evolve flammable hydrogen gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified

Tolyltriazole, sodium salt (64665-57-2)
ATE (oral) : 500,000 mg/kg bodyweight

Tetrasodium EDTA (64-02-8)
ATE (oral) : 500,000 mg/kg bodyweight

Skin corrosion/irritation : Causes mild skin and eye irritation
pH: 13.14
Serious eye damage/irritation : Causes eye irritation
pH: 13.14
Respiratory or skin sensitisation : Not classified
Based on available data, the classification criteria are not met
Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met
Carcinogenicity : Not classified
Based on available data, the classification criteria are not met
Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure) : Not classified
Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure): Not classified
Based on available data, the classification criteria are not met

Aspiration hazard: Not classified
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms: Not classified
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

**Tetrasodium EDTA (64-02-8)**

<table>
<thead>
<tr>
<th>endpoint</th>
<th>concentration</th>
<th>exposure time</th>
<th>species</th>
<th>hazard class</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes</td>
<td>41 mg/l</td>
<td>96 h</td>
<td>Lepomis macrochirus [static]</td>
<td>not classified</td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>610 mg/l</td>
<td>24 h</td>
<td>Daphnia magna</td>
<td>not classified</td>
</tr>
<tr>
<td>EC50 other aquatic organisms</td>
<td>1.01 mg/l</td>
<td>72 h</td>
<td>Desmodesmus subspicatus</td>
<td>not classified</td>
</tr>
<tr>
<td>LC50 fish</td>
<td>59.8 mg/l</td>
<td>96 h</td>
<td>Pimephales promelas [static]</td>
<td>not classified</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

**Glass-Klenz**

Persistence and degradability: The surfactant(s) contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

**Glass-Klenz**

Bioaccumulative potential: Not established.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers. Empty containers should be rinsed and discarded in a waste container or offered for recycling if possible.

Additional information: Dispose of empty containers and wastes safely.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

No dangerous good in sense of transport regulations.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Other information: No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available.

14.6.2. Transport by sea

No additional information available.
14.6.3. Air transport
No additional information available.

14.6.4. Inland waterway transport
No additional information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
Contains no REACH candidate substance
Other information, restriction and prohibition regulations: This preparation is classified as dangerous as defined by the UK Chemicals (Hazard Information and Packaging for Supply) Regulations. These regulations implement a number of EC Directives including the Dangerous Substances Directive (67/548/EEC and amendments), the Dangerous Preparations Directive (1999/45/EEC and amendments) and the Safety Data Sheets Directive (91/155/EEC and amendments).

15.1.2. National regulations
No additional information available.

15.2. Chemical safety assessment
No additional information available.

SECTION 16: Other information

Revision date: 09/27/2018

Other information: None.

Full text of H- and EUH-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation Category 1A</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H316</td>
<td>Causes mild skin irritation</td>
</tr>
<tr>
<td>H320</td>
<td>Causes mild eye irritation</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II)
The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.