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

1.1. Product identifier
   - Product form: Mixture
   - Trade name: 0.525% Hypochlorite WFI Sterile Solution
   - Product code: 1S08

1.2. Relevant identified uses of the substance or mixture and uses advised against
   - Use of the substance/mixture: Product for industrial use only
     - Surface cleaner

1.3. Details of the supplier of the safety data sheet
   - STERIS Corporation
     P. O. Box 147, St. Louis, MO 63166, US
     Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)

1.4. Emergency telephone number
   - Emergency number: US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   - GHS-US classification
     - Not classified

2.2. Label elements
   - other hazards which do not result in classification: Direct contact may: Causes eye irritation. Causes mild skin irritation.

SECTION 3: Composition/information on ingredients

3.1. Substance
   - Not applicable
   - Full text of H-phrases: see section 16

3.2. Mixture
<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier (CAS No)</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>0.525</td>
<td>Skin Corr. 1B, H314</td>
</tr>
</tbody>
</table>

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. If necessary seek medical advice.
   - First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists, seek medical 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: Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Give water to drink if victim completely conscious/alert. Call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed
   - Symptoms/injuries after skin contact: Frequent or prolonged contact with skin may cause dermal irritation.
   - Symptoms/injuries after eye contact: In fine dispersion/spraying/misting: May cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
   - No additional information available
SECTION 5: Firefighting measures

5.1. Extinguishing media

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: Do not breathe fumes, vapors. Avoid contact with skin, eyes and clothes.

6.1.1. For non-emergency personnel
Protective equipment: Wear suitable protective clothing. Wear protective gloves and eye/face protection. Boots.
Emergency procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

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.

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 in closed containers for disposal. Store away from other materials. Wash contaminated area with large amounts of water. Collect spillage. Use appropriate container to avoid environmental contamination. Dispose of contents/container to comply with applicable local, national and international regulations.

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: Product for industrial use only.
Hygiene measures: Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping. Wash contaminated clothing prior to re-use.

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. Keep cool. Protect from sunlight.
Heat and ignition sources: Store away from excessive heat.
Storage area: Store in dry, cool, well-ventilated area.
Special rules on packaging: Correctly labelled.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available
0.525% Hypochlorite WFI Sterile Solution
Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

8.2. Exposure controls

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal protective equipment</td>
<td>Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective clothing. Gloves. Protective eyewear.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Wear protective gloves.</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Wear protective eyewear.</td>
</tr>
<tr>
<td>Skin and body protection</td>
<td>Wear suitable protective clothing.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.</td>
</tr>
<tr>
<td>Other information</td>
<td>Do not eat, drink or smoke during use.</td>
</tr>
</tbody>
</table>

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear.</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless to yellow.</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>11.1</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Self ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.004 – 1.014 Specific Gravity</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: completely soluble</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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 polymerization will not occur.

10.4.  Conditions to avoid
Do not expose to heat. Light. Incompatible materials.

10.5.  Incompatible materials

10.6.  Hazardous decomposition products
Chlorine. Sodium oxide.

SECTION 11: Toxicological information

11.1.  Information on toxicological effects

Acute toxicity    : Not classified

<table>
<thead>
<tr>
<th>Sodium hypochlorite (7681-52-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>ATE (oral)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation  : Not classified
Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Not classified
Based on available data, the classification criteria are not met.

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.

Sodium hypochlorite (7681-52-9)

<table>
<thead>
<tr>
<th>IARC group</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 - Not classifiable</td>
</tr>
</tbody>
</table>

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.

Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation.

Symptoms/injuries after eye contact : In fine dispersion/spraying/misting: May cause eye irritation.

SECTION 12: Ecological information

12.1.  Toxicity

<table>
<thead>
<tr>
<th>Sodium hypochlorite (7681-52-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>LC50 fish 2</td>
</tr>
</tbody>
</table>
**0.525% Hypochlorite WFI Sterile Solution**

Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

**12.2. Persistence and degradability**

| 0.525% Hypochlorite WFI Sterile Solution | Persistence and degradability | Not established. |

**12.3. Bioaccumulative potential**

| 0.525% Hypochlorite WFI Sterile Solution | Bioaccumulative potential | Not established. |

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Additional information:
- Dispose of empty containers and wastes safely. Empty container retains product residue. Dilute residue with water. Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation. Dispose in a safe manner in accordance with local/national regulations.
- Ecology - waste materials: Avoid release to the environment.

**SECTION 14: Transport information**

In accordance with DOT
No dangerous good in sense of transport regulations

**Additional information**

Other information:
- No supplementary information available.

**ADR**

Transport document description:

**Transport by sea**

No additional information available

**Air transport**

No additional information available

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

**Sodium hypochlorite (7681-52-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2. International regulations**

Not applicable

**15.3. US State regulations**

No additional information available

**SECTION 16: Other information**

Date of Revision: 5/18/2015

Other information: None.

Full text of H-phrases: see section 16:

| Skin Corr. 1B | skin corrosion/irritation Category 1B |
| H314 | Causes severe skin burns and eye damage |
### 0.525% Hypochlorite WFI Sterile Solution

**Safety Data Sheet**

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

<table>
<thead>
<tr>
<th>NFPA health hazard</th>
<th>1-Exposure would cause irritation with only minor residual injury</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA fire hazard</td>
<td>0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone and sand.</td>
</tr>
<tr>
<td>NFPA reactivity</td>
<td>0 - Normally stable, even under fire exposure conditions, and is not reactive with water.</td>
</tr>
</tbody>
</table>

**SDS US (GHS HazCom 2012)**

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.