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

1.1. Product identifier

- Product form: Mixture
- Product name: ProKlenz® 100 High Performance Alkaline Detergent
- Product code: 1K75

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

Use of the substance/mixture: Alkaline Detergent.
For professional use only.

1.3. Details of the supplier of the safety data sheet

STERIS Corporation
Official Mailing Address:
P.O. Box 147
St. Louis, MO 63166 USA

Street Address:
7501 Page Avenue
St. Louis, MO 63133 USA

Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)
web: www.steris.com
email: asksteris_msdss@steris.com

1.4. Emergency telephone number

Emergency number: 1-314-535-1395 or CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

- Acute Tox. 4 (Oral): H302
- Skin Corr. 1A: H314
- Eye Dam. 1: H318

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US):

![GHS05](image1)
![GHS07](image2)

Signal word (GHS-US): Danger

Hazard statements (GHS-US):

- H290 - May be corrosive to metals
- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage

Precautionary statements (GHS-US):

- P260 - Do not breathe vapors, spray, mist.
- P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
- P280 - Wear protective gloves, protective clothing, eye protection.
- P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P363 - Wash contaminated clothing before reuse.
- P501 - Dispose of contents/container according to local, regional, national, and international regulations.
2.3. Other hazards

Other hazards not contributing to the classification: May be corrosive to respiratory tract.

2.4. Unknown acute toxicity (GHS-US)

5.2 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
5.2 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
5.2 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

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 (GHS-US)</th>
</tr>
</thead>
</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 if possible).

First-aid measures after inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 60 minutes. Immediately call a POISON CENTER or doctor.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Corrosive to eyes, respiratory system and skin. Harmful if swallowed.

Symptoms/injuries after inhalation: May be corrosive to the respiratory tract.

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye damage.

Symptoms/injuries after ingestion: Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Not flammable under normal conditions.

Explosion hazard: Product is not explosive under normal conditions. However, it attacks metals such as aluminum, tin, lead, and zinc to produce flammable and explosive hydrogen gas.

Reactivity: Can react with soft metals to evolve flammable hydrogen gas.

5.3. Advice for firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Do not allow run-off from fire fighting to enter drains or water courses. Do not get water inside containers. Do not apply water stream directly at source of leak.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Do not allow contact with incompatible materials (see section 10).

6.1.1. For non-emergency personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material, then place in suitable container.
Methods for cleaning up: Clear up spills immediately and dispose of waste safely.

6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Corrosive vapors are released. May be corrosive to metals.
Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store away from incompatible materials.
Incompatible products: Acids, soft metals, oxidizers, organic halogen compounds.

7.3. Specific end use(s)

Use of the substance/mixture: Alkaline Detergent.
For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Potassium hydroxide (1310-58-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapors below permissible exposure limit. Ensure all national/local regulations are observed.

Materials for protective clothing : Chemically resistant materials and fabrics.
Hand protection : Wear chemically resistant protective gloves. Rubber gloves.
Eye protection : Chemical goggles.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
Other information : When using, do not eat, drink or smoke.

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>Color</td>
<td>Colorless to light straw</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight Chemical</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>12.5 (1 % solution)</td>
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<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
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<tr>
<td>Melting point</td>
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<tr>
<td>Freezing point</td>
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</table>
ProKlenz® 100
High Performance Alkaline Detergent
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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<thead>
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<th>Property</th>
<th>Value</th>
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<tbody>
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<tr>
<td>Flash point</td>
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</tr>
<tr>
<td>Auto-ignition temperature</td>
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</tr>
<tr>
<td>Decomposition temperature</td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<tr>
<td>Vapor pressure</td>
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<tr>
<td>Relative vapor density at 20 °C</td>
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<tr>
<td>Relative density / Specific gravity</td>
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</tr>
<tr>
<td>Solubility</td>
<td>Complete in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
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<tr>
<td>Viscosity, kinematic</td>
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</tr>
<tr>
<td>Viscosity, dynamic</td>
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</tr>
<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
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<tr>
<td>Explosive limits</td>
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<tr>
<td>Boiling point</td>
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<tr>
<td>Flash point</td>
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</tr>
<tr>
<td>Log Kow</td>
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<tr>
<td>Explosive properties</td>
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<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
Stable.

10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Extremely high or low temperatures.

10.5. Incompatible materials
Acids, soft metals, oxidizers, organic halogen compounds.

10.6. Hazardous decomposition products
Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Harmful if swallowed.

ProKlenz® 100
High Performance Alkaline Detergent
LD50 oral rat 2000 - 5000
LD50 dermal rat 2000 - 5000

Potassium hydroxide (1310-58-3)
LD50 oral rat 284 mg/kg

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
ProKlenz® 100
High Performance Alkaline Detergent
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aspiration hazard: Not classified
Symptoms/injuries after inhalation: May be corrosive to the respiratory tract.
Symptoms/injuries after skin contact: Causes skin irritation.
Symptoms/injuries after eye contact: Causes serious eye damage.
Symptoms/injuries after ingestion: Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Potassium hydroxide (1310-58-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on ozone layer: No additional information available
Effect on the global warming: No known ecological damage caused by this product.
Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.
Additional information: RCRA Waste Code: D002 (Corrosive Material).

SECTION 14: Transport information

In accordance with DOT
Transport document description: UN1814 Potassium hydroxide, solution, 8, II
UN-No.(DOT): 1814
DOT NA no.: UN1814
DOT Proper Shipping Name: Potassium hydroxide, solution
Department of Transportation (DOT) Hazard Classes: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT): 8 - Corrosive

Packing group (DOT): II - Medium Danger

Additional information
Emergency Response Guide (ERG) Number: 154

Transport by sea
UN-No. (IMDG): 1814
Proper Shipping Name (IMDG): POTASSIUM HYDROXIDE SOLUTION
Class (IMDG): 8 - Corrosive substances
Packing group (IMDG): II - substances presenting medium danger

Air transport
UN-No.(IATA): 1814
Proper Shipping Name (IATA): POTASSIUM HYDROXIDE SOLUTION
Class (IATA): 8 - Corrosives
Packing group (IATA): II - Medium Danger
ProKlenz® 100
High Performance Alkaline Detergent
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

| ProKlenz® 100 |
| High Performance Alkaline Detergent |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

15.2. International regulations
No additional information available

15.3. US State regulations

**Potassium hydroxide (1310-58-3)**

- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision Date: 05/26/2015
Other information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of H-phrases: see section 16:

- Acute Tox. 3 (Oral): Acute toxicity (oral) Category 3
- Acute Tox. 4 (Oral): Acute toxicity (oral) Category 4
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Met. Corr. 1: Corrosive to metals Category 1
- Skin Corr. 1A: Skin corrosion/irritation Category 1A
- H290: May be corrosive to metals
- H301: Toxic if swallowed
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage

NFPA Health Hazard: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA Fire Hazard: 0 - Materials that will not burn.

NFPA Reactivity: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

NFPA Health Hazard: 3

NFPA Fire Hazard: 0

NFPA Reactivity: 1

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore be construed as guaranteeing any specific property of the product.