

**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](http://www.steris.com)  
 email: [asksteris\\_msds@steris.com](mailto:asksteris_msds@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)**

Met. Corr. 1 H290  
 Acute Tox. 4 (Oral) H302  
 Skin Corr. 1A H314  
 Eye Dam. 1 H318

**2.2. Label elements**

**GHS-US labeling**

Hazard pictograms (GHS-US) :



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.

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#### 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

Name	Product identifier	%	Classification (GHS-US)
Potassium hydroxide	(CAS No) 1310-58-3	10 - 30	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314 Eye Dam. 1, H318

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).  
Emergency procedures: Evacuate unnecessary personnel. Eliminate ignition sources.

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#### 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

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

USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
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#### 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.

Personal protective equipment : Protective clothing. Safety goggles. Gloves. Insufficient ventilation: wear respiratory protection.



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

Physical state : Liquid

Color : Colorless to light straw

Odor : Slight Chemical

Odor threshold : No data available

pH : 12.5 (1 % solution)

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

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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
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density / Specific gravity	: 1.2425 g/mL
Solubility	: Complete in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing 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

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, CO<sub>2</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity: Harmful if swallowed.

ProKlenz <sup>®</sup> 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

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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

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

Log Pow	0.65
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##### 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

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#### SECTION 15: Regulatory information

##### 15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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##### 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.



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 not therefore be construed as guaranteeing any specific property of the product.*