

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

1.1. Product identifier

Product form : Mixture
 Trade name : ProKlenz® ONE
 Product code : 1421

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Product for industrial and institutional use only
 Use of the substance/mixture : Alkaline Process and Research Cleaner

1.2.2. Uses advised against

No additional information available.

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: 1-800-444-7909 (Customer Service – Scientific Products)

US Emergency Telephone No. 1-800-535-1395 (STERIS) 1-800-424-9500 (CHEMTREC)

web: www.steris.com

email: asksteris_msds@steris.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US Classification

Acute Tox. 4 (Oral) H302

Skin Corr. 1A H314

Eye Dam. 1 H318

Full text of H-phrases: see Section 16.

2.2. Label elements – This label is regulated by the EPA under FIFRA. Refer to Section 15.

GHS-US Classification

Hazard pictograms (GHS-US) :



GHS05

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed.
 H313 - May be harmful in contact with skin.
 H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.

Precautionary statements (GHS-US) : P260 - Do not breathe mist, dust, vapors.
 P264 - Wash hands thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves/protective clothing and eye/face protection.
 P301+P312 - If swallowed, call a doctor if you feel unwell.
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 - IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
 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 to Comply with applicable local, national and international regulation.

2.3. Other hazards

No additional information available.

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2. Mixture

Name	Product identifier	%	GHS-US Classification
Sodium hydroxide	(CAS No) 1310-73-2	10 - 30	Acute Tox. 4 (Dermal), H312
Sodium chloride	(CAS No) 7647-14-5	0.2 - 9	Not classified
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	(CAS No) 164462-16-2	3.9 – 4.1	Skin Corr. 1B, H314 Aquatic Chronic 3, H412
Hexyl D-glucoside	(CAS No) 54549-24-5	1 - 5	Eye Dam. 1, H318
Sodium xylene sulfonate	(CAS No) 1300-72-7	1 - 5	Eye Irrit. 2, H319

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 victim to fresh air and keep at rest in a position comfortable for breathing. Immediately get medical attention.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. In all cases of doubt, or when symptoms persist, seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Give water or milk if the person is fully conscious. 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 and skin. Causes severe skin burns and eye damage.
- Symptoms/injuries after inhalation : May cause minor irritation to the respiratory tract and to other mucous membranes. The following symptoms may occur: Runny nose. Sore throat. Coughing, sneezes.
- Symptoms/injuries after skin contact : Severe skin irritant. Effects of skin contact may include: irritation and burn feeling.
- Symptoms/injuries after eye contact : Causes serious eye damage. Direct contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness.
- Symptoms/injuries after ingestion : Can burn mouth, throat, and stomach.

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. Foam. Dry powder. Carbon dioxide. Water spray

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Thermal decomposition generates: Fume. Carbon monoxide. Carbon dioxide. Sulphur dioxide (SO₂).

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.

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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 spillage. Store away from other materials. Neutralise spill carefully with any weak acid and flush remainder with plenty of water. Do not allow to enter into surface water or drains. Contain and dispose of waste according to local 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe gas, fumes, vapor or spray. Avoid contact during pregnancy/while nursing. Keep container tightly closed to avoid moisture absorption and contamination.

Hygiene measures : Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practices. 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 only in the original container in a cool, well ventilated place. Do not store on side. Avoid creasing or impacting of side container walls. Keep container closed when not in use. Keep out of reach of children.

Incompatible materials : Acids. light metals. Oxidizer. Halogenated compounds. Organic compounds. Contact with metallic substances may release flammable hydrogen gas.

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

Sodium hydroxide (1310-73-2)		
USA IDLH	US IDLH (mg/m ³)	10 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³

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. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. The following pictograms represent the minimum requirements for personal protective equipment. Protective clothing. Gloves. Protective goggles.



Hand protection : Wear protective gloves, rubber or plastic gloves.

Eye protection : Wear chemical goggles or face shield.

Skin and body protection : Wear suitable protective clothing. Rubber Apron. Rubber boots.

Respiratory protection : Work in well-ventilated zones or use proper respiratory protection. Wear appropriate mask.

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

Color : Yellow to amber

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Odor	: Soap odor
Odor threshold	: No data available
pH	: ca. 13.4 – 13.7 (concentrate)
pH solution	: ca. 12.5 (1%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: ca. 1.18 g/ml Specific Gravity
Solubility	: Water: completely soluble
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

No additional information available.

10.2. Chemical stability

Stable under normal conditions of use. Recommended storage temperature.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Store in a cool dry place.

10.5. Incompatible materials

Strong acid. Brass. Light metals. Magnesium. Tin. Chromium. Bronze. On contact with ordinary metals (steel, galvanized, aluminium) corrosion may occur and generate highly flammable hydrogen gas.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

ProKlenz® ONE	
LD50 oral rat	1000 mg/kg
ATE (oral)	1000,000 mg/kg bodyweight

Sodium xylene sulfonate (1300-72-7)	
LD50 oral rat	7200 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE (oral)	7200,000 mg/kg bodyweight

Sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg
ATE (dermal)	1350,000 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns.
pH: ca. 13.4 – 13.7

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Serious eye damage/irritation	: Causes serious eye damage. pH: ca. 13.4 – 13.7
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.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

Sodium xylene sulfonate (1300-72-7)	
EC50 Daphnia 1	> 1020 mg/l 48 hours
NOEC (acute)	470 48 hours - daphnia

Sodium hydroxide (1310-73-2)	
LC50 fishes 1	45,4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [Static])

12.2. Persistence and degradability

ProKlenz® ONE	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) 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

ProKlenz® ONE	
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	: PESTICIDE DISPOSAL: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
Additional information	: CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Do not contaminate water, food, or feed by storage or disposal.
Ecology - waste materials	: Avoid release to the environment.

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SECTION 14: Transport information

In accordance with DOT

Transport document description : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, CORROSIVE, PG II
Proper Shipping Name : SODIUM HYDROXIDE SOLUTION, 8, CORROSIVE, PG II
UN-No.(DOT) : 1824
UN-No.(DOT) : UN1824
Department of Transportation (DOT) Hazard Classes : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II

Additional information

Other information : No supplementary information available.

Road transport

Class: ADR/RID : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, CORROSIVE, PG II

Sea transport

Class: IMDG : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, CORROSIVE, PG II

Air transport

Class: ICAO/IATA : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, CORROSIVE, PG II

SECTION 15: Regulatory information

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

EPA FIFRA Pesticide Product Notice	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
EPA FIFRA Signal Word	Danger
EPA FIFRA Hazard Statements	Keep Out of Reach of Children
EPA FIFRA Precautionary Statements	Hazards to Humans and Domestic Animals

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

15.3. US State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

SECTION 16: Other Information

Sources of Key data : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Other information : None.

GHS full text phrases:

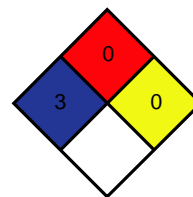
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

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- 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 : 0 - Normally stable, even under fire exposure conditions, and is not reactive with water.



SDS US GHS

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.