

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 01/18/2019

Version:

.0

#### **SECTION 1: Identification**

#### **Product Identifier**

Product Form: Mixture

Product Name: ProKlenz® Foam High Performance Alkaline Cleaner

Product Code: 1431

#### 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 professional use only

Alkaline Process & Research Cleaner Use of the substance/mixture

#### 1.2.2. Uses advised against

No additional information available

#### 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

## **Emergency Telephone Number**

: +44 (0) 1895 622 639 **Emergency Number** 

SECTI	ON 2	Hozordo	Identification

## **Classification of the Substance or Mixture**

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Met. Corr. 1 H290 H314 Skin Corr. 1A Eye Dam. 1 H318 Full text of H-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. **Label Elements**

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Pictograms (CLP)





Signal Word (CLP)

Hazard Statements (CLP)

Danger

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage. Precautionary Statements (CLP)

P260 - Do not breathe mist, spray, vapors.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Leave as is/in English only

Translatable

Answers to queries/additional info

GSH phrases - follow spreadsheet provided or find approved translation at

http://schoolscout24.de/cgi-bin/keminaco/hppinput.cgi

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.

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P308+P313 - If exposed or concerned: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.

#### 2.3. Other Hazards

Other Hazards: May be corrosive to the respiratory tract. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

#### SECTION 3: Composition/Information On Ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8 (REACH No) 01-2119487136-33- 0057	7 - 13	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
Cocamide DIPA	(CAS No) 68855-69-6 (EC no) 273-196-0, 203-820-9	5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H320
Potassium silicate	(CAS No) 1312-76-1 (EC no) 215-199-1	1 - 5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Sodium Polyacrylate	(CAS No) 68479-09-4 (EC no) 614-534-2	1 – 5	Eye Irrit. 2B, H320
Dipropylene glycol monomethyl ether	(CAS No) 34590-94-8 (EC no) 252-104-2	1 - 5	Flam. Liq. 4, H227 Eye Irrit. 2, H319 Eye Dam. 1, H318 Acute Tox. 4 (Oral), H302 STOT SE 3, H335
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	(CAS No) 68439-57-6 (EC no) 270-407-8;931-534-0 (REACH No) 01-2119513401-57- 0024	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Alcohols, C9-11, ethoxylated	(CAS No) 68439-46-3 (EC no) 614-482-0	1 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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 exposed or concerned: Get medical advice/attention. First-aid Measures After Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water. Wash contaminated clothing before reuse. First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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: Causes severe skin burns and eye damage. Suspected of causing cancer. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract. May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes severe skin burns. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. 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 exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## **SECTION 5: Fire-Fighting Measures**

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#### 5.1. Extinguishing Media

Suitable Extinguishing Media: Powder, alcohol-resistant foam, water spray, carbon dioxide (CO<sub>2</sub>).

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: Combustible liquid.

Explosion Hazard: Product is not explosive.

Reactivity: Corrosive to metals. Reacts with some acids.

#### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. Do not allow run-off from firefighting to enter drains or water courses.

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

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>). Corrosive vapors.

### **SECTION 6: Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all eyes and skin contact and do not breathe vapor and mist.

## 6.1.1. For Non-emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material, then place in suitable container. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Contact competent authorities after a spill.

## 6.4. Reference to Other Sections

See Section 8: Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see section 13

#### **SECTION 7: Handling And Storage**

## 7.1. Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Do not breathe mist, spray, vapors. Use appropriate personal protection equipment (PPE).

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. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

## 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep only in original container.

Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers. Alkalis. Soft Metals.

## 7.3. Specific End Use(s)

Alkaline Process & Research Cleaner

## **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Potassium hydroxide (1310-58-3)			
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³	
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	2 mg/m³	
United Kingdom	WEL STEL (mg/m³)	2 mg/m³	
Dipropylene glycol monome	thyl ether (34590-94-8)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm	
USA ACGIH	ACGIH STEL (ppm)	150 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	600 mg/m <sup>3</sup>	
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	600 mg/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm	

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USA NIOSH	NIOSH REL (STEL) (mg/m³)	900 mg/m³
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
USA IDLH	US IDLH (ppm)	600 ppm
United Kingdom	WEL TWA (mg/m³)	308 mg/m³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m³)	924 mg/m³ (calculated)
United Kingdom	WEL STEL (ppm)	150 ppm (calculated)

#### **Exposure Controls**

Appropriate Engineering Controls

Personal Protective Equipment

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

: Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory

protection. Face shield.





Wear chemically resistant protective gloves.

Chemical safety goggles and face shield.







Materials for Protective Clothing

Hand Protection Eye Protection

Other Information

Skin and Body Protection

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection

Wear suitable protective clothing.

should be worn.

When using, do not eat, drink or smoke.

## **SECTION 9: Physical And Chemical Properties**

## Information on Basic Physical and Chemical Properties

Physical State

Appearance Colorless to light yellow

Slight chemical Odor Odor Threshold No data available

≈ 11.3 - 12.0 (1% Soln) рΗ

Evaporation rate No data available Melting Point No data available Freezing Point No data available **Boiling Point** No data available

Flash Point Tag Closed Cup

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 Specific Gravity 1.125 - 1.128 g/ml Solubility Complete in water. Partition coefficient: n-octanol/water No data available

No data available Viscosity Explosion Data - Sensitivity to Mechanical Impact Not expected to present an explosion hazard due to mechanical impact. Explosion Data - Sensitivity to Static Discharge Not expected to present an explosion hazard due to static discharge.

#### **Other Information**

No additional information available

## **SECTION 10: Stability And Reactivity**

#### 10.1 Reactivity:

Corrosive to soft metals. Reacts exothermically with (some) acids.

#### **Chemical Stability:**

Stable under normal conditions.

## **Possibility of Hazardous Reactions:**

Hazardous polymerization will not occur.

## **Conditions to Avoid:**

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

## 10.5 Incompatible Materials:

Strong acids. Strong bases. Strong oxidizers. Alkalis. Metals. May be corrosive to soft metals

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#### 10.6 Hazardous Decomposition Products:

Carbon oxides (CO, CO<sub>2</sub>). Thermal decomposition generates: Corrosive vapors. Sulfur oxides. Metal oxides. Potassium oxides. Nitrogen oxides. Hydrogen.

### **SECTION 11: Toxicological Information**

## 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Alcohols, C9-11, ethoxylated surfactant (68439-46-3		
LD50 Oral Rat	1000 - 2000 mg/kg	
LD50 Dermal Rat	4000 mg/kg	

Potassium hydroxide (1310-58-3)		
LD50 Oral Rat	333 mg/kg	
Dipropylene glycol monomethyl ether (34590-94-8)		
LD50 Oral Rat	5230 mg/kg	
LD50 Dermal Rabbit	9500 mg/kg	
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)		
LD50 Oral Rat	2310 mg/kg	
LD50 Dermal Rabbit	6300 mg/kg	
Potassium silicate (1312-76-1)		
LD50 Oral Rat	1300 mg/kg	

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

pH: ≈ 11.3 - 12.0 (1% Soln)

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: ≈ 11.3 – 12.0 (1% Soln)

Respiratory or Skin Sensitization: No data available.

Germ Cell Mutagenicity: Not classified Teratogenicity: No data available

Carcinogenicity: Suspected of causing cancer.

## **SECTION 12: Ecological Information**

#### 12.1. Toxicity

Ecology - General : Harmful to aquatic life.

Alcohols, C9-11, ethoxylated (68439-46-3)	_	
LC50 Fish 1	11 mg/l (Exposure time: 96 h – Species: Pimephales promelas)	
EC50 Daphnia 1	12 mg/l (Exposure time 48 h – Daphnia magna)	
ErC50 (algae)	1 – 10 mg/l (Exposure time 96 h – algae)	
Dipropylene glycol monomethyl ether (34590-94-8)		
LC50 Fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)		
LC50 Fish 1	4.2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])	
EC50 Daphnia 1	4.53 mg/l (Ceriodaphnia sp)	
LC 50 Fish 2	12.2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])	
ErC50 (algae)	5.2 mg/l (Water quality - Marine Algal Growth Inhibition Test with Skeletonema costatum and Phaeodactylum tricornutum)	

Potassium silicate (1312-76-1)	
LC50 Fish 1	301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC 50 Fish 2	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])

#### 12.2. Persistence and Degradability

(ProKlenz® Foam) High Performance Alkaline Cleaner	
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.
Alcohols, C9-11, ethoxylated (68439-46-3)	
Devoistance and Degradability	Dondily hindagendoble

Persistence and Degradability	Readily biodegradable
LD50 Dermal Rat	4000 mg/kg
Dipropylene glycol monomethyl ether (34590-94-8	
Persistence and Degradability	Readily biodegradable

#### 12.3. Bioaccumulative Potential

ProKlenz® Foam  (High Performance Alkaline Cleaner)	
Bioaccumulative Potential	Not established.
Potassium hydroxide (1310-58-3)	

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Log Pow	0.65
Dipropylene glycol monomethyl ether (34590-94-8	
Log Pow	-0.064 (at 20 °C)
Bioaccumulative Potential	Not expected to bioaccumulate.

#### Potassium silicate (1312-76-1)

BCF fish 1 (no bioaccumulation expected)

#### 12.4. Mobility in Soil

No additional information available 2.5. Other Adverse Effects

Other Information : Avoid release to the environment.

#### **SECTION 13: Disposal Considerations**

#### 13.1. Waste treatment methods

Sewage Disposal Recommendations: This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations

## **SECTION 14: Transport Information**

#### 14.1 In Accordance with DOT

Proper Shipping Name : POTASSIUM HYDROXIDE, SOLUTION

Hazard Class : 8
Identification Number : UN1814
Label Codes : 8

Packing Group : II ERG Number : 154



Proper Shipping Name : POTASSIUM HYDROXIDE SOLUTION

Hazard Class : 8
Identification Number : UN1814
Packing Group : II
Label Codes : 8
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B



#### 14.3 In Accordance with IATA

Proper Shipping Name : POTASSIUM HYDROXIDE, SOLUTION

Packing Group : II
Identification Number : UN1814
Hazard Class : 8
Label Codes : 8



ERG Code (IATA) : 8L

## 14.4 In Accordance with TDG

Proper Shipping Name : POTASSIUM HYDROXIDE, SOLUTION

Packing Group : II
Hazard Class : 8
Identification Number : UN1814
Label Codes : 8



## **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

15.1.2. National regulations

No additional information available 15.2. US Federal Regulations

## ProKlenz<sup>®</sup> Foam High Performance Alkaline Cleaner

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

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

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

### Dipropylene glycol monomethyl ether (34590-94-8)

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

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EPA TSCA Regulatory Flag

T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

#### Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)

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

## Potassium silicate (1312-76-1)

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

#### Cocamide DIPA (68855-69-6)

Listed on the Sara 311 Hazardous Substance List

## Alcohols, C9-11, ethoxylated surfactant (68439-46-3)

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

#### 15.3. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other Information**

Revision Date Sources of Key data : 01/18/2019

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

#### Full text of H- and EUH-phrases:

t of 11 and Loff philases.		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Eye Irrit. 2A	Eye Irritation Category 2A	
Eye Irrit. 2B	Eye Irritation Category 2B	
Flam. Liq. 4	Flammable liquids Category 4	
Met. Corr. 1	Corrosive to metals Category 1	
Skin Corr. 1A	Skin corrosion/irritation Category 1A	
Skin Corr. 1B	Skin corrosion/irritation Category 1B	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
H227	Combustible liquid	
H290	May be corrosive to metals	
H302	Harmful if swallowed	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H320	Causes serious eye irritation	
H335	May cause respiratory irritation	

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.

SDS EU (REACH Annex II)

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