

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

#### 1.1. Product identifier

Product form : Mixture  
 Trade name : ProKlenz NpH® Sterile Detergent  
 Product code : 1S12

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

Use of the substance/mixture : Product for Industrial Use only  
 Sterile Detergent

#### 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

Acute Tox. 5 (oral) H303  
 Acute Tox. 5 (dermal) H313  
 Skin Corr. 2 H315  
 Eye Dam. 2A H319

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H303 - May be harmful if swallowed  
 H313 - May be harmful in contact with skin  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling  
 P280 - Wear protective gloves/protective clothing and eye/face protection  
 P302+P352 - IF ON SKIN: Wash with plenty of 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  
 P310 - Immediately call a POISON CENTER or doctor  
 P312 - Call a POISON CENTER or doctor if you feel unwell  
 P332+P313 - If skin irritation occurs: Get medical advice/attention  
 P337+P313 - If eye irritation persists: Get medical advice/attention  
 P362+P364 - Take off contaminated clothing and wash it before reuse

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

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

# ProKlenz<sup>®</sup> NpH Sterile Detergent

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

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit substance with national workplace exposure limit(s)	(CAS No) 34590-94-8	7 - 13	Not classified
Triethanolamine substance with national workplace exposure limit(s)	(CAS No) 102-71-6 (REACH No) 01-2119486482-31-0035	5 - 10	Not classified
Citric acid	(CAS No) 77-92-9 (REACH No) 01-2119457026-42-0067	1 - 5	Eye Irrit. 2A, H319
Octyldimethylamine Oxide	(CAS No) 2605-78-9 (REACH no) 01-2119409076-45-0002	1 - 5	Eye Dam. 1, H318

## 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 not breathing, give artificial respiration. Get medical attention.
First-aid measures after skin contact	: Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.
First-aid measures after ingestion	: If victim completely conscious/alert. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Give water or milk if the person is fully conscious.

### 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	: Causes serious 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

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Sand.
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### 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. Nitrogen oxides
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### 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	: Use self-contained breathing apparatus. 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 breathe fumes, vapors. Avoid contact with skin, eyes and clothes.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear protective gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".
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.

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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Comply with applicable local, national and international regulation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect all waste in suitable and labelled containers and dispose according to local legislation. Store away from other materials. Small spills: wipe away or flush away with water. Small spills may be flushed to a sanitary sewer with copious amounts of water.

### 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 : Read label before use. Provide good ventilation in process area to prevent formation of vapour. Avoid all eye and skin contact and do not breathe vapour and mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Take care for general good hygiene and housekeeping. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

Storage conditions : Keep locked up and out of reach of children. Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Incompatible materials : Strong oxidizing agents. Acids. Bases. Alkalis and caustic products.

Storage temperature : < 32 °C (< 90 °F)

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : Keep only in original container. Correctly labelled.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Dipropylene glycol monomethyl ether (34590-94-8)		
USA - ACGIH	ACGIH TWA (ppm)	100 ppm
USA - ACGIH	ACGIH STEL (ppm)	150 ppm
USA - IDLH	US IDLH (ppm)	600 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
USA - NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Triethanolamine (102-71-6)		
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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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. Protective clothing. Gloves. Protective goggles.



Hand protection : Wear rubber gloves.  
Eye protection : Wear chemical splash goggle.  
Skin and body protection : Wear suitable protective clothing.  
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  
Appearance : Clear.  
Colour : Colourless.  
Odour : Mild. chemical odor.  
Odour threshold : No data available  
pH : 6.9 Approximately  
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) : No data available  
Vapour pressure : No data available  
Relative vapor density at 20 °C : No data available  
Relative density : No data available  
Density : ca. 1.035 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  
Oxidising 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.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

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### 10.5. Incompatible materials

Strong oxidizers. Acids. Bases. Alkalis and caustic products.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Phosphorous oxide. fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

ProKlenz® NpH Sterile Detergent	
LD50 oral rat	> 2000 mg/kg

Dipropylene glycol monomethyl ether (34590-94-8)	
LD50 oral rat	5230 mg/kg
LD50 dermal rabbit	9500 mg/kg
ATE (oral)	5230,000 mg/kg bodyweight
ATE (dermal)	9500,000 mg/kg bodyweight

Triethanolamine (102-71-6)	
LD50 oral rat	4190 mg/kg
LD50 dermal rabbit	> 20 ml/kg
ATE (oral)	4190,000 mg/kg bodyweight

Octyldimethylamine Oxide (2605-78-9)	
LD50 oral rat	> 5000 mg/kg

Skin corrosion/irritation	: Not classified pH: 6.9 Approximately
Serious eye damage/irritation	: Causes serious eye damage. pH: 6.9 Approximately
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
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
Potential Adverse human health effects and symptoms	: Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

ProKlenz® NpH Sterile Detergent	
LC50 fishes 1	> 750 mg/l

Citric acid (77-92-9)	
LC50 fishes 1	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	120 mg/l (Exposure time: 72 h - Species: Daphnia magna)

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### 12.2. Persistence and degradability

#### ProKlenz® NpH High Sterile Detergent

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® NpH Sterile Detergent

Bioaccumulative potential

Not established.

#### Citric acid (77-92-9)

Log Pow

-1.72 (at 20 °C)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation. Dispose of in accordance with relevant local regulations.

Additional information : Do not re-use empty containers. Rinse with water. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

### 14.1. UN number

No dangerous good in sense of transport regulations

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

#### 14.6.4. Inland waterway transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Citric acid (77-92-9)

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

##### Octyldimethylamine Oxide (2605-78-9)

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

#### 15.2. International regulations

Not applicable

#### 15.3. US State regulations

Not applicable

### SECTION 16: Other information

Revision date : 08/07/2019

Other information : None.

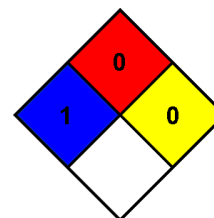
Full text of H-phrases:

Acute Tox. 5 (oral)	Acute toxicity (oral), Category 5
Acute Tox. 5 (dermal)	Acute toxicity (dermal), Category 5
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

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



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.*