

### 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  
 Product group : Trade product

#### 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 Use only  
 Use of the substance/mixture : High Performance Neutral 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

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

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 1895 622 639

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

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

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) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H303 - May be harmful if swallowed  
 H313 - May be harmful in contact with skin  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation

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Precautionary statements (CLP) : 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

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit substance with national workplace exposure limit(s)	(CAS No) 34590-94-8 (EC no) 252-104-2	7 - 13	Not classified
Triethanolamine substance with national workplace exposure limit(s)	(CAS No) 102-71-6 (EC no) 203-049-8 (REACH No) 01-2119486482-31-0035	5 - 10	Not classified
Citric acid	(CAS No) 77-92-9 (EC no) 201-069-1 (REACH No) 01-2119457026-42-0067	1 - 5	Eye Irrit. 2, H319
Octyldimethylamine Oxide	(CAS No) 2605-78-9 (EC no) 601-854-9 (REACH no) 01-2119409076-45-0002	1 - 5	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 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

### 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

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment

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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

##### 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

#### 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)		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	924 mg/m <sup>3</sup> (calculated)
United Kingdom	WEL STEL (ppm)	150 ppm (calculated)
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

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

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>
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## 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
- 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 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 : Approximately 6,9
- 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 vapour 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
- 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

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### 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

#### 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 irritation 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 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
Potential Adverse human health effects and symptoms	: Harmful if swallowed

### SECTION 12 : Ecological information

#### 12.1. Toxicity

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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)
Dipropylene glycol monomethyl ether (34590-94-8)	
LC50 fishes 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)
Triethanolamine (102-71-6)	
LC50 fishes 1	10600 – 13000 mg/l (Exposure time: 96 h – Species: Pimephales promelas [Flow-through])
EC50 other aquatic organisms 1	216 mg/l (Exposure time: 72 h – Species: Desmodesmus subspicatus)
LC50 fish 2	> 1000 mg/l (Exposure time: 96 h – Species: Pimephales promelas [Static])
EC50 other aquatic organisms 2	169 mg/l (Exposure time: 96 h – Species: Desmodesmus subspicatus)

### 12.2. Persistence and degradability

ProKlenz® NpH 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)
Dipropylene glycol monomethyl ether (34590-94-8)	
Log Pow	-0,064 (at 20 °C)
Triethanolamine (102-71-6)	
BCF fish 1	< 3,9
Log Pow	-2,53

### 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	: 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 ADR / RID / IMDG / IATA / ADN

### 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

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### 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

## 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. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16 : Other information

Revision date : 08/07/2019

Sources of Key data : 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

Other information : None

Full text of H- and EUH-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 Dam. 2A	Causes serious eye irritation, Category 2A
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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

SDS EU (REACH Annex II)

*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.*