ProKlenz® NpH Sterile Detergent
Safety Data Sheet
according to Regulation (EC) No. 453/2010
Date of issue: 08/07/2019

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

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): 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
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>(CAS No) 34590-94-8 (EC no) 252-104-2</td>
<td>7 - 13</td>
<td>Not classified</td>
</tr>
<tr>
<td>substance with a Community workplace exposure limit(s)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>substance with national workplace exposure limit(s)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>(CAS No) 102-71-6 (EC no) 203-049-8 (REACH No) 01-2119486482-31-0035</td>
<td>5 - 10</td>
<td>Not classified</td>
</tr>
<tr>
<td>substance with national workplace exposure limit(s)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric acid</td>
<td>(CAS No) 77-92-9 (EC no) 201-069-1 (REACH No) 01-2119457026-42-0067</td>
<td>1 - 5</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Octyldimethylamine Oxide</td>
<td>(CAS No) 2605-78-9 (EC no) 801-854-9 (REACH No) 01-2119409076-45-0002</td>
<td>1 - 5</td>
<td>Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

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


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

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


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

<table>
<thead>
<tr>
<th>Dipropylene glycol monomethyl ether (34590-94-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
</tr>
<tr>
<td>United Kingdom</td>
</tr>
<tr>
<td>United Kingdom</td>
</tr>
<tr>
<td>United Kingdom</td>
</tr>
<tr>
<td>USA - ACGIH</td>
</tr>
<tr>
<td>USA - ACGIH</td>
</tr>
<tr>
<td>USA - IDLH</td>
</tr>
<tr>
<td>USA - NIOSH</td>
</tr>
<tr>
<td>USA - NIOSH</td>
</tr>
<tr>
<td>USA - NIOSH</td>
</tr>
<tr>
<td>USA - NIOSH</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild chemical odor</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Approximately 6.9</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Self ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>ca. 1,035 g/ml Specific Gravity</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Completely soluble</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
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</tbody>
</table>

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

#### 10.5. Incompatible materials

#### 10.6. Hazardous decomposition products

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity
Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>Route of exposure</th>
<th>LD50</th>
<th>Dermal LD50</th>
<th>ATE (oral)</th>
<th>ATE (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProKlenz® NpH Sterile Detergent</td>
<td>Oral</td>
<td>&gt; 2000 mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether (34590-94-8)</td>
<td>Oral</td>
<td>5230 mg/kg</td>
<td>9500 mg/kg</td>
<td>5230,000 mg/kg bodyweight</td>
<td>9500,000 mg/kg bodyweight</td>
</tr>
<tr>
<td>Triethanolamine (102-71-6)</td>
<td>Oral</td>
<td>4190 mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Octyldimethylamine Oxide (2605-78-9)</td>
<td>Oral</td>
<td>&gt; 5000 mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>&gt; 20 ml/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ATE (oral)</td>
<td></td>
<td>4190,000 mg/kg bodyweight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
<td>pH: 6.9 Approximately</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye irritation</td>
<td>pH: 6.9 Approximately</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potential Adverse human health effects and symptoms</td>
<td>Harmful if swallowed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.1. Toxicity

Aspiration hazard: Not classified

Based on available data, the classification criteria are not met
**ProKlenz® NpH Sterile Detergent**  
**Safety Data Sheet**  
according to Regulation (EC) No. 453/2010

<table>
<thead>
<tr>
<th><strong>ProKlenz® NpH Sterile Detergent</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>&gt; 750 mg/l</td>
</tr>
</tbody>
</table>

**Citic 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 subsicus tus) |
| 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 subsicus tus) |

**12.2. Persistence and degradability**

**ProKlenz® NpH Sterile Detergent**

Persistence and degradability

The surfactant(s) contained in this preparation complies 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

**Citic 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**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable
ProKlenz® NpH Sterile Detergent
Safety Data Sheet
according to Regulation (EC) No. 453/2010

14.5. Environmental hazards

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous for the environment</td>
<td>No</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Other information</td>
<td>No supplementary information available</td>
</tr>
</tbody>
</table>

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

Full text of H- and EUH-phrases:

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H303</td>
<td>May be harmful if swallowed</td>
</tr>
<tr>
<td>H313</td>
<td>May be harmful in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

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.