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
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:
Allied Scientific Products
102 Bakehouse Rd.
Kensington Vic. 3031
Australia
Telephone: 1300 244724

Level 4
17 Albert St.
Auckland CBD 1010
New Zealand
Tel: 0508 338 423, Fax: 649 9913 2009.

1.4. Emergency telephone number
Emergency number : 1 800 429 551 (24 hours) Australia
0508 338 423 (New Zealand)
1-703-741-5970 (CHEMTREC International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to NOHSC :

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) :

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

## 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>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>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) 807-854-9 (REACH No) 01-2119409076-45-0002</td>
<td>1 - 5</td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Other Non-Hazardous Components</td>
<td>NA</td>
<td>Up to 100%</td>
<td>NA</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/water. 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>Dicropyle glycol monomethyl ether (34590-94-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Control parameters</strong></td>
</tr>
<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>
</tbody>
</table>

08/07/2019 EN (English) SDS Ref: 1S12AU
**ProKlenz® NpH Sterile Detergent**

**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

---

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

<table>
<thead>
<tr>
<th></th>
<th>USA - NIOSH</th>
<th>NIOSH REL (STEL) (mg/m³)</th>
<th>900 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>USA - NIOSH</td>
<td>NIOSH REL (STEL) (ppm)</td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td>USA - OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>600 mg/m³</td>
</tr>
<tr>
<td></td>
<td>USA - OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

### Triethanolamine (102-71-6)

|          | USA - ACGIH     | ACGIH TWA (mg/m³)        | 5 mg/m³   |

---

### 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

---

<table>
<thead>
<tr>
<th>Date</th>
<th>Language</th>
<th>SDS Reference</th>
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<tbody>
<tr>
<td>08/07/2019</td>
<td>EN (English)</td>
<td>1S12AU</td>
</tr>
</tbody>
</table>
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>ProKlenz® NpH Sterile Detergent</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dipropylene glycol monomethyl ether (34590-94-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5230 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>9500 mg/kg</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td>523,000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE (dermal)</td>
<td>950,000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Triethanolamine (102-71-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>4190 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 20 ml/kg</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td>4190,000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Octyldimethylamine Oxide</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

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
ProKlenz® NpH Sterile Detergent
Safety Data Sheet
according to Regulation (EC) No. 453/2010

ProKlenz® NpH Sterile Detergent

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 fishes 1</th>
<th>EC50 Daphnia 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid (77-92-9)</td>
<td>&gt; 750 mg/l</td>
<td>120 mg/l (Exposure time: 72 h – Species: Daphnia magna)</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether (34590-94-8)</td>
<td>&gt; 1516 mg/l (Exposure time: 96 h – Species: Lepomis macrochirus [Static])</td>
<td>&gt; 1000 mg/l (Exposure time: 96 h – Species: Pimephales promelas [Static])</td>
</tr>
<tr>
<td>Triethanolamine (102-71-6)</td>
<td>&gt; 10000 mg/l (Exposure time: 96 h – Species: Pimephales promelas [Static])</td>
<td>&gt; 1000 mg/l (Exposure time: 96 h – Species: Daphnia magna)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid (77-92-9)</td>
<td>-1,72 (at 20 °C)</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether (34590-94-8)</td>
<td>-0,064 (at 20 °C)</td>
</tr>
<tr>
<td>Triethanolamine (102-71-6)</td>
<td>&lt; 3,9</td>
</tr>
</tbody>
</table>

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>Property</th>
<th>Information</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. Australia
AICS Listed or Exempt. Hazard Category: NA

15.1.2. EU-Regulations
No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.3. 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               :

Other information                  : None

Full text of H-phrases:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 5 (oral)</td>
<td>Acute toxicity (oral), Category 5</td>
</tr>
<tr>
<td>Acute Tox. 5 (dermal)</td>
<td>Acute toxicity (dermal), Category 5</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Eye Dam. 2A</td>
<td>Causes serious eye irritation, Category 2A</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<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.