CIP 100™
Alkaline Process and Research Cleaner
Safety Data Sheet
according to Regulation (EC) No. 453/2010
Date of issue: 09/25/2018
Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : CIP 100™ - Alkaline Process and Research Cleaner
Product code: 1D10

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 : Alkaline 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 :
Hazardous Substance. Dangerous Goods.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute Tox. 4 (Oral) H302
Skin Corr. 1A H314
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) : 

GHS05 GHS07
4.3. 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>Potassium hydroxide</td>
<td>(CAS No) 1310-58-3</td>
<td>10 - 30</td>
<td>Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td>(EC no) 215-181-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC index no) 019-002-00-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(REACH no) 01-2119487136-33-0057</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetrasodium EDTA</td>
<td>(CAS No) 64-02-8</td>
<td>1 - 5</td>
<td>Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td>(EC no) 200-573-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC index no) 607-428-00-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(REACH no) 01-2119486762-27-0018</td>
<td></td>
<td></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 patient to fresh air and keep at rest in a position comfortable for breathing. Immediately get medical attention. If not breathing, give artificial respiration.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: 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. In all cases of doubt, or when symptoms persist, seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion: Rinse mouth. Give water to drink if victim completely conscious/alert. 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.
Symptoms/injuries after skin contact: Severe skin irritant. Effects of skin contact may include: irritation and burn feeling.
Symptoms/injuries after eye contact: Causes serious eye damage. Direct contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness.
Symptoms/injuries after ingestion: 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
No additional information available.
SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

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: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.
Other information: Do not mix with: Chlorinated products as this could liberate toxic corrosive chlorine gas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Do not breathe fumes, vapours. Stop leak if safe to do so. Avoid contact with skin, eyes and clothes.

6.1.1. For non-emergency personnel
Protective equipment: Wear suitable protective clothing. Wear protective gloves and eye/face protection. Boots.
Emergency procedures: Evacuate unnecessary personnel.

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: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Neutralise spill carefully with any weak acid and flush remainder with plenty of water. Collect spillage. Store away from other materials. Local authorities should be advised if significant spillages cannot be contained.

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: Product for industrial use only. Provide good ventilation in process area to prevent formation of vapour. Keep container tightly closed to avoid moisture absorption and contamination. Do not breathe gas, fumes, vapour or spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Never return unused material to original container.
Hygiene measures: Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping. Do not eat, drink or smoke when using this product. Wash contaminated clothing prior to re-use. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Comply with applicable regulations. A washing facility/water for eye and skin cleaning purposes should be present. Provide adequate ventilation.
Storage conditions: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Heat and ignition sources: Store away from excessive heat. Remove all sources of ignition.
Storage area: Store in dry, cool, well-ventilated area.
Special rules on packaging: Correctly labelled.

7.3. Specific end use(s)
No additional information available.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>USA NIOSH</th>
<th>United Kingdom</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH Ceiling</td>
<td>2 mg/m³</td>
<td>NIOSH REL (ceiling)</td>
<td>WEL STEL (mg/m³)</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

**Appropriate engineering controls**: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust ventilation is recommended to maintain vapour level below the threshold limit value (TLV). Ensure adequate ventilation.

**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 protective gloves, rubber or plastic gloves.

**Eye protection**: Wear chemical goggles or face shield.

**Skin and body protection**: Wear suitable protective clothing. Rubber apron, boots.

**Respiratory protection**: Work in well-ventilated zones or use proper respiratory protection. Wear appropriate mask.

**Environmental exposure controls**: Avoid discharge to the environment.

**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>Clear to pale straw</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight chemical odour</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>&gt; 13 (concentrate)</td>
</tr>
<tr>
<td>pH solution</td>
<td>12.3 - 12.8 (1% solution)</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>&gt;206°F (96.7°C)</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. 1.27 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>Log Kow</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>
</tr>
</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 polymerisation does not occur.

10.4. Conditions to avoid
Incompatible materials. Keep away from heat. Direct sunlight.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Harmful if swallowed.

<table>
<thead>
<tr>
<th>CIP 100™ - Alkaline Process and Research Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tetrasodium EDTA (64-02-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE (oral)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potassium hydroxide (1310-58-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>ATE (oral)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes severe skin burns
pH: > 13 (concentrate)

Serious eye damage/irritation: Causes severe eye damage
pH: > 13 (concentrate)

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: Not classified

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>CIP 100™ - Alkaline Process and Research Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tetrasodium EDTA (64-02-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
</tr>
</tbody>
</table>
CIP 100™
Alkaline Process and Research Cleaner
Safety Data Sheet
according to Regulation (EC) No. 453/2010

**12.2. Persistence and degradability**

<table>
<thead>
<tr>
<th>CIP 100™ - Alkaline Process and Research Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

**12.3. Bioaccumulative potential**

<table>
<thead>
<tr>
<th>CIP 100™ - Alkaline Process and Research Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
</tr>
<tr>
<td>Not established</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.
- Additional information: Dispose of empty containers and wastes safely. Hazardous waste (corrosive) based on pH.
- Ecology - waste materials: Avoid release to the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

**14.1. UN number**

<table>
<thead>
<tr>
<th>UN-No</th>
<th>UN-No.(IATA)</th>
<th>UN-No. (IMDG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1814</td>
<td>1814</td>
<td>1814</td>
</tr>
</tbody>
</table>

**14.2. UN proper shipping name**

- Proper Shipping Name: POTASSIUM HYDROXIDE SOLUTION
- Transport document description: UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, Corrosive, PG II

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

- Class (UN): 8
- Class (IATA): 8
- Class (IMDG): 8
- Hazard labels (UN): 8

**14.4. Packing group**

- Packing group (UN): II

**14.5. Environmental hazards**

- Other information: No supplementary information available.

**14.6. Special precautions for user**

- Special transport precautions: 4 x 1 gal package not approved for air shipment. Road/Rail: ADR/RID Class: UN1814, Potassium Hydroxide Solution, 8, 42(b) ADR

**14.6.1. Overland transport**

- Hazard identification number (Kemler No.): 80
Classification code (UN): C5
Orange plates: 80 1814

Transport category (ADR): 2
Tunnel restriction code: E
Limited quantities (ADR): 1L
Excepted quantities (ADR): E2
EAC code: 2R

14.6.2. Transport by sea
No additional information available.

14.6.3. Air transport
No additional information available.

14.6.4. Australia
ADG/HazChem Code: 2X.

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

15.1.3. Australia
AICS Listed or exempt. Hazard Category: Corrosive

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision Date: 09/25/2018
Sources of Key data:

Other information: None.

Full text of H- and EUH-phrases:

- Acute Tox. 4 (Oral): Acute toxicity (oral), Category 4
- Eye Dam. 1: Serious eye damage/eye irritation, Category 1
- Skin Corr. 1A: Skin corrosion/irritation, Category 1A
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage

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.