

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

1.1. Product identifier

Product form : Mixture
 Trade name : Prolystica® Ultra Concentrate HP Alkaline Detergent
 Product code : 1C17

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 Detergent

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: 1-800-548-4873 (Customer Service-Healthcare Products)
 US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

Supplier:

Device Technologies Australia Pty Ltd
 1 Garigal Road
 Belrose NSW 2085, Australia
 Telephone: 1-800-429-551
 Fax: 612-9975-5711

Device Technologies New Zealand Limited
 47 Arrenway Drive, Albany, Auckland, 0632
 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
 Acute Tox. 4 (Dermal) H312
 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

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H302 - Harmful if swallowed
 H312 - Harmful in contact with skin
 H314 - Causes severe skin burns and eye damage

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Precautionary statements (CLP) : H318 - Causes serious eye damage
: P103 – Read label before use
P260 - Do not breathe mist, spray, vapours, fume
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear eye protection, protective clothing, protective gloves.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363 - Wash contaminated clothing 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]
Potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8	5-10	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Sodium hydroxide substance with national workplace exposure limit(s) (AT, BG, CZ, ES, ET, FI, FR, GB, GR, HU, IE, IT, LT, LV, PL, PT, SE, SK)	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6	1-5	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314
Other Non-Hazardous Ingredients	NA	Up to 100	NA

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. Corrosive to eyes, respiratory system and skin.

Symptoms/injuries after inhalation : Inhalation of mists is extremely irritating to mucous membranes and upper respiratory tract.

Symptoms/injuries after skin contact : Effects of skin contact may include: irritation and burn feelings. Contact with concentrated solution may cause serious damage to skin.

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

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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

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.

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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 : 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. May react with soft metals to evolve flammable hydrogen gas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Do not breathe fumes, vapors. 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. Collect in closed containers for disposal. Local authorities should be advised if significant spillages cannot be contained. Neutralise spill carefully with any weak acid and flush remainder with plenty of water. Wash contaminated areas with large quantities of water to a sanitary sewer, if in accordance with local, state or national legislation. Do not allow to enter into surface water or drains.

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. Read label before use. 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 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 : Acids. Oxidizing agents. Organic compounds. Halogenated compounds. Chromium. Magnesium. Zinc. On contact with ordinary metals (steel, galvanized, aluminium) corrosion may occur and generate highly flammable hydrogen gas.
- Storage area : Store in dry, cool, well-ventilated area.

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)		
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³
Canada (Quebec)	PLAFOND (mg/m ³)	2 mg/m ³
USA - ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³
USA - NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³

Sodium hydroxide (1310-73-2)		
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³

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Sodium hydroxide (1310-73-2)		
USA - ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³
USA - IDLH	US IDLH (mg/m ³)	10 mg/m ³
USA - NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³

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 vapor level below the threshold limit value (TLV).
- 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 : 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

- Physical state : Liquid
- Appearance : Clear.
- Colour : Amber.
- odour : No data available
- Odour threshold : No data available
- pH : > 13.0 (concentrate)
- pH solution : 12.7 (1% solution)
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-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. 1.3166 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

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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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

No additional information available

10.5. Incompatible materials

On contact with ordinary metals (steel, galvanized, aluminium) corrosion may occur and generate highly flammable hydrogen gas. Acids. Oxidizing agent. organic materials. Halogenated compounds. Magnesium. Zinc. Chromium.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium hydroxide (1310-58-3)

LD50 oral rat	214 mg/kg
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Sodium hydroxide (1310-73-2)

LD50 dermal rabbit	1350 mg/kg
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Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: > 13.0 (concentrate)
Serious eye damage/irritation	: Causes serious eye damage. pH: > 13.0 (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

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LC50 fishes 1	> 750 mg/l (Pimephales promelas) in most concentrated use dilution.
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Sodium hydroxide (1310-73-2)

LC50 fishes 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
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12.2. Persistence and degradability

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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.
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12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

Potassium hydroxide (1310-58-3)

Log Pow : 0.65

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.
Prevent contamination of soil, drains and surface waters.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1814
UN-No. (IMDG) : 1814
UN-No.(IATA) : 1814

14.2. UN proper shipping name

Proper Shipping Name (ADR) : POTASSIUM HYDROXIDE SOLUTION
Proper Shipping Name (IMDG) : POTASSIUM HYDROXIDE SOLUTION
Proper Shipping Name (IATA) : POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Hazard labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



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ADN

Transport hazard class(es) (ADN) : No additional information available

RID

Transport hazard class(es) (RID) : No additional information available

14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : No additional information available
Packing group (RID) : No additional information available

14.5. Environmental hazards

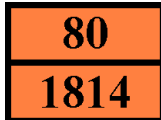
Dangerous for the environment : No
Marine pollutant : No
Other information : NOT approved for air shipment

14.6. Special precautions for user

Special transport precautions : NOT approved for air shipment

14.6.1. Overland transport

Classification code (ADR) : C5
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP2
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2R

14.6.2. Transport by sea

Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP2
Stowage category (IMDG) : A
Stowage and segregation (IMDG) : 'Separated from' acids.
Properties and observations (IMDG) : Colourless liquid. Reacts with ammonium salts, evolving ammonia gas. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.
MFAG-No : 154

14.6.3. Air transport

NOT approved for air shipment
UN-No.(IATA) : 1814
Proper Shipping Name (IATA) : POTASSIUM HYDROXIDE SOLUTION
Class (IATA) : 8 - Corrosives
Packing group (IATA) : II - Medium Danger - NOT approved for air shipment
Instruction "cargo" (ICAO) : NOT approved for air shipment

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Instruction "passenger" (ICAO) : NOT approved for air shipment

14.6.4. Inland waterway transport

Not subjected to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

14.6.6. Australia

ADG/HazChem Code: 2R Special Provisions: SP184

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. Hazard Category : 8.2B (skin corrosive), 8.3A (eye corrosive)

15.1.2. EU-Regulations

Contains no REACH candidate substance

15.1.3. National regulations – New Zealand

HSNO Approval Number: HSR002526

HSNO Group Standard Name: Cleaning Products (Corrosive) Group Standard 2006

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Revision Date : 02/22/2018

Sources of Key data : None.

Other information : None.

Full text of H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

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.