

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

### 1.1. Product identifier

Product form : Mixture  
 Trade name : ProKlenz<sup>®</sup> Booster High Performance Detergent Additive  
 Product code : 1609

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : High Performance Detergent Additive

### 1.3. Details of the supplier of the safety data sheet

STERIS Corporation  
 P. O. Box 147, St. Louis, MO 63166, US  
 Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)

### 1.4. Emergency telephone number

Emergency number : US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

Acute Tox Oral 5 H303  
 Eye Dam. 1 H318

### 2.2. Label elements

#### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
 Hazard statements (GHS-US) : H303 – May be harmful if swallowed  
 H318 - Causes serious eye damage  
 Precautionary statements (GHS-US) : P280 - Wear protective gloves, clothing, eye and face protection  
 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

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable  
 Full text of H-phrases: see section 16

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Hexyl D-glucoside	(CAS No) 54549-24-5	5 - 10	Eye Dam. 1, H318

# ProKlenz<sup>®</sup> Booster High Performance Detergent Additive

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Name	Product identifier	%	GHS-US classification
Hydrogen peroxide	(CAS No) 7722-84-1	3-7	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
Poly(oxy-1,2-ethanediyl), .alpha.-phenyl-.omega.-hydroxy-	(CAS No) 9004-78-8	3-7	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Alcohols, C9-11, ethoxylated	(CAS No) 68439-46-3	3-7	Eye Dam. 1, H318
Poly(oxy-1,2-ethanediyl), .alpha.-(2-ethylhexyl)-.omega.-hydroxy-	(CAS No) 26468-86-0	1-2	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

### 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. 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. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.
- First-aid measures after ingestion : Do NOT induce vomiting. If victim completely conscious/alert. Rinse mouth. Give water or milk if the person is fully conscious. Immediately call a POISON CENTER or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Inhalation of vapors or spray/mists. May be irritating to the mucous membranes and to the respiratory system.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Can occur: gastrointestinal disturbance.

#### 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 : Flood with plenty of water. Use fire-extinguishing media appropriate for surrounding materials.
- Unsuitable extinguishing media : Organic compounds. As hydrogen peroxide may react with a variety of organic materials and can form explosive mixtures, shock sensitive compounds, and initiate fire. Foam is not effective as oxygen and heat continue to be generated under the foam blanket.

#### 5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : This product contains : Hydrogen peroxide. On decomposition releases oxygen which may intensify fire. Containers may swell and burst during a fire due to internal pressure caused by heat

#### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire.
- Protective equipment for firefighters : Use self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Oxygen evolution decomposition may burst sealed containers and accelerate the burning rates of other combustible materials. Damp material in contact with paper, wood, cloth, etc. may cause spontaneous combustion of the organic material.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe fumes, vapors. Stop leak if safe to do so.

# ProKlenz<sup>®</sup> Booster High Performance Detergent Additive

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### 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.

### 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 : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible, followed by a water rinse. Collect spillage. Store away from other materials. Do not absorb in sawdust, paper, cloth or other combustible absorbents. Comply with applicable local, national and international regulation.
- Other information : Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation.

### 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 vapor and mist. Keep away from incompatible materials. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not wear leather soled shoes.
- 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. Contaminated clothing should be washed thoroughly in order to eliminate a delayed potential fire hazard.

### 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 only in the original container in a cool, well ventilated place. Keep container closed when not in use.
- Incompatible materials : strong alkalis. Strong oxidizing agents. Organic materials. Reducing agents. Alkali metals. wood. Paper. Copper and its alloys. cyanides. potassium permanganate. combustible materials. Hexavalent chromium compounds.
- Prohibitions on mixed storage : Do not store near oxidizing agents. keep away from incompatible materials.
- 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

Hydrogen peroxide (7722-84-1)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1,4 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm

### 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.

# ProKlenz<sup>®</sup> Booster High Performance Detergent Additive

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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. Use neoprene or rubber gloves. Use gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected.

Eye protection : Wear chemical splash goggle.

Skin and body protection : Wear suitable protective clothing. Wear long sleeves. Boots.

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 : Light amber. liquid.

Colour : Light amber.

Odour : Slight. chemical odor.

Odour threshold : No data available

pH : 4.5 - 6

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 : 1.04 g/ml Specific Gravity

Solubility : Water: completely soluble

Log Pow : No data available

Log Kow : 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

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

# ProKlenz® Booster High Performance Detergent Additive

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong alkalis. Strong oxidizing agents. Organic materials. Reducing agents. Alkali metals. wood. Paper. Copper and its alloys. Cyanides. Potassium permanganate. Combustible materials. Hexavalent chromium compounds.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Toxic fumes may be released.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : >5000 mg/kg (rat)

Hydrogen peroxide (7722-84-1)	
LD50 oral rat	801 mg/kg
LD50 dermal rat	4060 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	2 g/m <sup>3</sup> (Exposure time: 4 h)
ATE (oral)	801,000 mg/kg bodyweight
ATE (dermal)	2000,000 mg/kg bodyweight
ATE (gases)	4500,000 ppmV/4h
ATE (vapours)	2,000 mg/l/4h
ATE (dust,mist)	2,000 mg/l/4h

Skin corrosion/irritation	: Not classified pH: 4.5 - 6
Serious eye damage/irritation	: Causes serious eye damage. pH: 4.5 - 6
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

## SECTION 12: Ecological information

### 12.1. Toxicity

Hydrogen peroxide (7722-84-1)	
LC50 fishes 1	16,4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	7,7 mg/l (Exposure time: 24 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	2,5 mg/l (Exposure time: 72 h - Species: Chlorella vulgaris)
LC50 fish 2	18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

### 12.2. Persistence and degradability

ProKlenz® Booster High Performance Detergent Additive	
Persistence and degradability	The surfactants in the product comply with the EU Detergents Directive 684/2004 for biodegradability.

# ProKlenz<sup>®</sup> Booster High Performance Detergent Additive

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### 12.3. Bioaccumulative potential

#### ProKlenz<sup>®</sup> Booster High Performance Detergent Additive

Bioaccumulative potential Not established.

#### Hydrogen peroxide (7722-84-1)

BCF fish 1 (no bioaccumulation)

### 12.4. Mobility in soil

No additional information available

### 12.5. 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. Empty containers should be thoroughly rinsed with large quantities of clean water. Consult the appropriate authorities about waste disposal.

Additional information : Do not re-use empty containers. Container remains hazardous when empty. Continue to observe all precautions.

## SECTION 14: Transport information

In accordance with DOT

### 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

### 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. US Federal regulations

#### Poly(oxy-1,2-ethanediyl), .alpha.-(2-ethylhexyl)-.omega.-hydroxy- (26468-86-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Poly(oxy-1,2-ethanediyl), .alpha.-phenyl-.omega.-hydroxy- (9004-78-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Hydrogen peroxide (7722-84-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 302 (Specific toxic chemical listings)

# ProKlenz<sup>®</sup> Booster High Performance Detergent Additive

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### Hydrogen peroxide (7722-84-1)

SARA Section 302 Threshold Planning Quantity (TPQ) 1000 (concentration >52%)

### Alcohols, C9-11, ethoxylated (68439-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Hexyl D-glucoside (54549-24-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

Not applicable

## 15.3. US State regulations

Not applicable

## SECTION 16: Other information

Revision date : 04/02/2015

Full text of H-phrases:

Acute Tox. 5 (oral)	Acute toxicity (oral), Category 5
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) 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. 2A	Serious eye damage/eye irritation, Category 2A
Ox. Liq. 1	Oxidising Liquids, Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H271	May cause fire or explosion; strong oxidiser
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

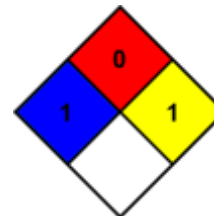
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



SDS US (GHS HazCom 2012)

*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.*