

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

1.1. Product identifier

Product form : Mixture
 Trade name : Vaprox[®] 59 Hydrogen Peroxide Sterilant
 Product code : PB031, PB032, PB033, PB034, PB035

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

Use of the substance/mixture : Antimicrobial agent
 Use of the substance/mixture : Product for industrial use only

1.3. Details of the supplier of the safety data sheet

Company
 STERIS Corporation
 5960 Heisley Road, Mentor OH 44060, USA
 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)

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

Ox. Liq. 2	H272
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Corr. 1B	H314
Eye Dam. 1	H318
STOT SE 3	H335

2.2. Label elements – This label is regulated by the EPA under FIFRA. Refer to Section 15.

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :

- H272 - May intensify fire; oxidiser
- H302+H332 - Harmful if swallowed or if inhaled
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

- P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
- P220 - Keep/Store away from combustible materials
- P221 - Take any precaution to avoid mixing with combustible materials
- P260 - Do not breathe mist, spray, vapours
- P261 - Avoid breathing mist, spray, vapours, fume, dust
- P264 - Wash hands thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear eye protection, protective clothing, protective gloves
- P301+P312 - If swallowed: Call a a POISON CENTER if you feel unwell
- P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
- P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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

Vaprox[®] 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P310 - Immediately call a doctor, a POISON CENTER
P312 - Call a doctor if you feel unwell
P321 - Specific treatment (see on this label)
P330 - Rinse mouth
P363 - Wash contaminated clothing before reuse
P370+P378 - In case of fire: Use dry chemical, foam, carbon dioxide, Water fog to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data 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
Hydrogen peroxide	(CAS No) 7722-84-1	59	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

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. In all cases of doubt, or when symptoms persist, seek medical attention.

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. Immediately get medical attention.

First-aid measures after skin contact : Remove contaminated clothing immediately. Immediately flush skin with plenty of water for at least 15 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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. Immediately get medical attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : If victim completely conscious/alert. Give water or milk if the person is fully conscious. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

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

Symptoms/injuries : Hydrogen peroxide at these concentrations is a strong oxidant. Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : Harmful if inhaled. Possible inflammation of the respiratory tract. Medical observation is recommended for 24 to 48 hours after overexposure, as pulmonary edema may be delayed. May cause respiratory irritation.

Symptoms/injuries after skin contact : Can cause chemical burns.

Symptoms/injuries after eye contact : Eye contact with concentrated solutions may cause severe eye damage followed by loss of sight.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

Vaprox[®] 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Flood with plenty of water. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- 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. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Precautionary measures fire : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.
- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. 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.
- 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. Do not breathe fumes, vapors. Avoid contact with skin, eyes and clothes. Stop leak if safe to do so.

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 : Stop leak if safe to do so. 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. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. 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. Do not absorb in sawdust, paper, cloth or other combustible absorbents. comply with applicable local, national and international regulation. Collect spillage. Store away from other materials.
- Other information : Combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in fire.

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. Avoid all eye and skin contact and do not breathe vapour and mist. keep away from incompatible materials. Do not wear leather soled shoes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust, mist or spray. Use only outdoors or in a well-ventilated area. Never return unused material to original container.

Vaprox® 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene measures : Take care for general good hygiene and housekeeping. Wash hands thoroughly after handling. Contaminated clothing should be washed thoroughly in order to eliminate a delayed potential fire hazard. 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. Floors should be impervious, resistant to liquids and easy to clean.

Storage conditions : Keep only in the original container in a cool, well ventilated place. Store only in vented containers. Keep container tightly closed. Keep/Store away from clothing. Ensure control measures are regularly inspected and maintained.

Incompatible materials : Strong alkalis. Strong oxidizing agents. Organic materials. Reducing agents. Metal salts. Alkali metals. wood. Paper. Copper and its alloys. Metals. cyanide. Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

Prohibitions on mixed storage : keep away from incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : Correctly labelled.

Pesticide Storage : Do not contaminate water, food, feed by storage or disposal. Store containers upright. Do not freeze. Do not expose to cyanide, hexavalent chromium compounds, other oxidizers, reducers, combustible materials, or flammable vapors.

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 ³)	1.4 mg/m ³
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. Local exhaust ventilation is recommended to maintain vapor level below the threshold limit value (TLV).

Personal protective equipment : Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective clothing. Gloves. Protective goggles. Avoid all unnecessary exposure.



Hand protection : Wear protective gloves. Use neoprene gloves. Use gloves constructed of chemical resistant materials such as nitrile, neoprene, rubber, or vinyl if frequent or prolonged contact is expected.

Eye protection : Wear protective eyewear. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Do not wear contact lenses.

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. Protection factors vary depending upon the type of respirator used.

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 : Odourless.

Odour threshold : No data available

pH : <= 3.5

Vaprox® 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative evaporation rate (butyl acetate=1)	: > 1
Melting point	: No data available
Freezing point	: -55 °C
Boiling point	: 119 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 85 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: 14.2 mm Hg @ 30°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.1 - 1.24 g/ml Specific Gravity
Solubility	: Water: completely soluble
Log Pow	: -1.57 @ 20°C
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 1.079 cP @ 25°C
Explosive properties	: No data available
Oxidising properties	: Oxidizer.
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

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur. Contamination may cause rapid decomposition, oxygen gas release and dangerous pressures.

10.4. Conditions to avoid

Extremely high or low temperatures. Direct sunlight. Protect from all contamination.

10.5. Incompatible materials

cyanides. Strong acids. Strong alkalis. Strong oxidizers. Reducing agent. organic materials. Readily oxidizable materials such as paper, wood, sulfur and aluminum . Alkali metals. metals. Metal salts. Copper and its alloys. Hexavalent chromium compounds. potassium permanganate.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful if inhaled.

Vaprox® 59 Hydrogen Peroxide Sterilant	
ATE CLP (oral)	500.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h
Hydrogen peroxide (7722-84-1)	
LD50 oral rat	801 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	2 g/m ³ (Exposure time: 4 h)
ATE CLP (oral)	801.000 mg/kg bodyweight
ATE CLP (dermal)	2000.000 mg/kg bodyweight
ATE CLP (gases)	4500.000 ppmv/4h
ATE CLP (vapours)	2.000 mg/l/4h

Vaprox® 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hydrogen peroxide (7722-84-1)	
ATE CLP (dust,mist)	2.000 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: <= 3.5
Serious eye damage/irritation	: Causes serious eye damage. pH: <= 3.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified

Hydrogen peroxide (7722-84-1)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
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.
Symptoms/injuries after inhalation	: Harmful if inhaled. Possible inflammation of the respiratory tract. Medical observation is recommended for 24 to 48 hours after overexposure, as pulmonary edema may be delayed. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Can cause chemical burns.
Symptoms/injuries after eye contact	: Eye contact with concentrated solutions may cause severe eye damage followed by loss of sight.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Hydrogen peroxide (7722-84-1)	
LC50 fishes 1	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and degradability

Vaprox® 59 Hydrogen Peroxide Sterilant	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Vaprox® 59 Hydrogen Peroxide Sterilant	
Log Pow	-1.57 @ 20°C
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

Other information : Avoid release to the environment.

Vaprox® 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : PESTICIDE DISPOSAL: Rinse containers with 20 parts water and then empty into sink with running water. Hydrogen Peroxide is classified as a DOT oxidizer and a hazardous waste under U.S. EPA hazardous waste regulations and it is a violation of federal law to improperly dispose of pesticides.
- Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If waste cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
- Additional information : CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT
Keep well ventilated and away from direct sunlight or heat sources.

14.1. UN number

- UN-No. : 2014
UN-No.(IATA) : 2014
UN-No. (IMDG) : 2014
UN-No.(ADN) : 2014

14.2. UN proper shipping name

- Proper Shipping Name : HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Proper Shipping Name (IATA) : HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS, 59 %
Transport document description : UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS 59% STABILIZED), 5.1 (8), II

14.3. Transport hazard class(es)

- Class (UN) : 5.1
Classification code (UN) : OC1
Class (IATA) : 5.1
Class (IMDG) : 5.1
Class (ADN) : 5.1
Hazard labels (UN) : 5.1, 8



14.4. Packing group

- Packing group (UN) : II

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

- Hazard identification number (Kemler No.) : 58
Classification code (UN) : OC1
Orange plates :



- Transport category (ADR) : 2
Tunnel restriction code : E
Limited quantities (ADR) : 1L

Vaprox® 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Excepted quantities (ADR) : E2

EAC code : 2P

14.6.2. Transport by sea

PB031(950mL), PB032 (18.93L), PB033 (113mL), PB034 (70mL)

See above information (IMDG)

PB035 (29mL)

Conforms with IMDG 3.5. Shipping paper must state "dangerous goods in excepted quantities".

14.6.3. Air transport

PB031(950mL), PB032 (18.93L), PB033 (113mL), PB034 (70mL)

Forbidden

Transport regulations (IATA) : Hydrogen peroxide (>40%) is forbidden on Passenger and Cargo Aircraft

Instruction "passenger" (ICAO) : Hydrogen peroxide (>40%) is forbidden on Passenger and Cargo Aircraft

PB035 (29mL)

Air: Conforms with ICAO SP A75.

14.6.4. Inland waterway transport

Vaprox 59 is not considered a marine pollutant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

EPA FIFRA Signal Word	Danger
	Oxidizer
	Corrosive
EPA FIFRA Hazard Statements	Keep Out of Reach of Children
EPA FIFRA Precautionary Statements	Hazards to Humans and Domestic Animals
	Corrosive.
	Causes irreversible eye damage or skin burns.
	May be fatal if inhaled.
	Harmful if swallowed or absorbed through skin.
	Do not get in eyes, on skin or on clothing.
	Do not breathe spray mist.
	Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.
	User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
	User should remove contaminated clothing and wash before reuse.

15.1. US Federal regulations

Hydrogen peroxide (7722-84-1)

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

Listed on the United States SARA Section 302

SARA Section 302 Threshold Planning Quantity (TPQ)	1000 (concentration >52%)
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SECTION 16: Other information

Revision Date: : 07/20/2018

Other information : None.

Vaprox® 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 16:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
Ox. Liq. 1	Oxidising Liquids, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H271	May cause fire or explosion; strong oxidiser
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

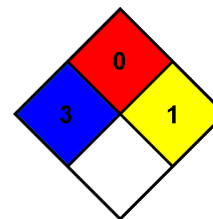
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

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.