

**PeraShine****SAFETY DATA SHEET**

Preparation Date: 14-Oct-2016

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Revision Number: 3

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Identifier****Product Name** PeraShine**Other means of identification****Item#:** 4403**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended use** Sanitizer, Restricted to professional users**Uses advised against** All other**Details of the supplier of the safety data sheet****Supplier** DeLaval Cleaning Solutions  
11100 N. Congress Ave.  
Kansas City, MO 64153  
Tel: 816-891-7700, 8am – 5pm M-F**Emergency Telephone Number**

Chemtrec 1-800-424-9300

**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Dermal	Category 4
Skin Corrosion/Irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Corrosive to metals	Category 1
Organic peroxides	Type G
Oxidizing liquids	Category 2

**Label Elements****Emergency Overview****DANGER****Hazard Statements**Harmful in contact with skin  
Causes severe skin burns and eye damage  
May cause respiratory irritation  
May be corrosive to metals  
May intensify fire; oxidizer

**Appearance** Clear Colorless**Physical state** Liquid**Odor** Pungent**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep/Store away from clothing/ combustible materials  
 Take any precaution to avoid mixing with combustibles  
 Keep only in original container

**Precautionary Statements - Response**

Specific treatment (see First Aid on this label)  
 Immediately call a POISON CENTER or doctor/physician

IF IN EYES: 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.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.  
 Absorb spillage to prevent material damage.

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed  
 Store in corrosive resistant container with a resistant inner liner

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight %
Hydrogen peroxide	7722-84-1	6
Acetic acid	64-19-7	20 - 30
Peracetic acid	79-21-0	5.2
Methane sulfonic acid	75-75-2	10 - 20

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first-aid measures****Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Call a physician immediately.

**Skin contact**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Consult a physician.

**Inhalation**

Move to fresh air. Give oxygen or artificial respiration if needed. If symptoms persist, call a physician.

**Ingestion**

Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

The product causes burns of eyes, skin and mucous membranes. Irritating to respiratory system. Oxidizing agent. Contact with combustible material may cause fire.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water. Carbon dioxide (CO<sub>2</sub>). Foam.

**Unsuitable Extinguishing Media**

dry chemical.

**Specific hazards arising from the chemical**

Decomposition will release oxygen which may increase the intensity of a fire. The product causes burns of eyes, skin and mucous membranes.

**Sensitivity to static discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

**Health hazards** 3

**Flammability** 1

**Instability** 1

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Avoid contact with the skin and the eyes. In case of insufficient ventilation, wear suitable respiratory equipment. For personal protection see section 8.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). DO NOT use combustible materials such as sawdust. Drying of this product on clothing or combustible materials may cause fire. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling****Handling**

Keep away from clothing and other combustible materials. Wear personal protective equipment. Ensure adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a receptacle equipped with a vent. Store in upright position only. Keep away from direct sunlight. Do not store near combustible materials. Do not store on wooden pallets. Store at temperatures not exceeding 30°C/ 86°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner.

**Incompatible Materials** dirt, combustible material, organic materials, reducing agents, bases, light metals (e.g. aluminum, copper, brass, zinc galvanized)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup>	75 ppm
Acetic acid 64-19-7	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>	50 ppm
Peracetic acid 79-21-0	STEL: 0.4 ppm		-

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Goggles. Face-shield.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Pungent
<b>Appearance</b>	Clear Colorless	<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks/ Method</b>	
pH	2 (1%)		
<b>Melting point/freezing point</b>	No information available		
<b>Boiling Point/Range</b>	No information available		
<b>Flash Point</b>	No information available		
<b>Evaporation rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit</b>	No information available		
<b>Lower flammability limit</b>	No information available		
<b>Vapor Pressure</b>	No information available		

**Vapor Density** No information available  
**Specific Gravity** 1.13  
**Water Solubility** No information available

**Partition coefficient: n-octanol/water** No information available  
**Autoignition Temperature** No information available  
**Decomposition temperature** No information available  
**Viscosity of Product** No information available  
**Dynamic viscosity**

**Other information**

**Density** 9.4 lb/gal

## 10. STABILITY AND REACTIVITY

**Reactivity**

May react with other chemicals. Do not mix with other chemicals except as directed on label.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None known.

**Conditions to Avoid**

Extremes of temperature and direct sunlight. Protect from contamination.

**Incompatible Materials**

dirt, combustible material, organic materials, reducing agents, bases, light metals (e.g. aluminum, copper, brass, zinc galvanized)

**Hazardous decomposition products**

Decomposition will release oxygen which may increase the intensity of a fire.

## 11. TOXICOLOGICAL INFORMATION

**Principal Routes of Exposure** Eye contact, Skin contact, Ingestion, Inhalation

**Information on likely routes of exposure**

**Eyes** Corrosive to the eyes and may cause severe damage including blindness.  
**Skin** Causes burns.  
**Ingestion** Ingestion causes burns of the upper digestive and respiratory tracts.  
**Inhalation** May cause irritation of respiratory tract.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** Product is not identified as a sensitizer according to OSHA regulations.  
**Mutagenic effects** Product is not identified as a mutagen according to OSHA regulations.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide 7722-84-1	A3	Group 3	Not Listed	Not Listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Confirmed animal carcinogen with unknown relevance to humans*

*IARC (International Agency for Research on Cancer)*

*Group 3 - Not classifiable*

**Reproductive Effects**  
**STOT - single exposure**

Product is not identified as having reproductive effects according to OSHA regulations.  
 Irritating to respiratory system. Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.

**STOT - repeated exposure** Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.

**Aspiration Hazard** Product is not identified as an aspiration hazard according to OSHA regulations.

**Numerical measures of toxicity**

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen peroxide 7722-84-1	= 801 mg/kg ( Rat )	= 2000 mg/kg ( Rabbit ) = 4060 mg/kg ( Rat )	= 2 g/m <sup>3</sup> ( Rat ) 4 h
Acetic acid 64-19-7	= 3310 mg/kg ( Rat )	= 1060 mg/kg ( Rabbit )	= 11.4 mg/L ( Rat ) 4 h
Peracetic acid 79-21-0	9-203 mg/kg ( Rat )	12000 mg/kg ( Rat ) 56-226 mg/kg ( Rabbit )	76 -> 241 mg/l (rat)
Methane sulfonic acid 75-75-2	= 380 mg/kg ( Rat ) = 200 mg/kg ( Rat )	= 200 mg/kg ( Rabbit )	No data available

0% of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Hydrogen peroxide 7722-84-1	2.5: 72 h <i>Chlorella vulgaris</i> mg/L EC50	16.4: 96 h <i>Pimephales promelas</i> mg/L LC50 18 - 56: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 10.0 - 32.0: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	No data available	18 - 32: 48 h <i>Daphnia magna</i> mg/L EC50 Static 7.7: 24 h <i>Daphnia magna</i> mg/L EC50
Acetic acid 64-19-7	> 300 mg/l	> 300 mg/l	EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min EC50 = 8.8 mg/L 5 min	65: 48 h <i>Daphnia magna</i> mg/L EC50 Static 47: 24 h <i>Daphnia magna</i> mg/L EC50
Peracetic acid 79-21-0	EC50 = 0.18-1.0 mg/l (48h)	LC50 = 0.9-2.0 mg/l (96h)	No data available	EC50 = 0.5-0.1 mg/l (48h)
Methane sulfonic acid 75-75-2	No data available	No data available	No data available	12: 48 h <i>Daphnia pulex</i> mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

**Other adverse effects**

No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Waste Disposal Method**

Should not be released into the environment. Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

**DOT**

<b>UN-No</b>	3149
<b>Proper Shipping Name</b>	Hydrogen peroxide and Peroxyacetic acid mixture, stabilized
<b>Hazard Class</b>	5.1 (8)
<b>Packing Group</b>	II

**15. REGULATORY INFORMATION****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hydrogen peroxide 7722-84-1	X	X	X
Acetic acid 64-19-7	X	X	X
Peracetic acid 79-21-0	X	X	X
Methane sulfonic acid 75-75-2	X	Not Listed	Not Listed

**U.S. EPA Label information****EPA Pesticide registration number** 4959-1**EPA Statement**

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide label**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER: CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear overalls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and gloves. Wear protective eyewear (goggles, face shield, or safety glasses). Remove contaminated clothing and wash clothing before reuse.

**16. OTHER INFORMATION**

<b>Preparation Date:</b>	14-Oct-2016
<b>Revision Date:</b>	03-Nov-2017
<b>Revision Note:</b>	None

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of SDS**