Premium Peroxide II SAFETY DATA SHEET

Preparation Date: 21-Dec-2007 **Revision Date:** 13-Dec-2018 **Revision Number:** 8

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name Premium Peroxide II

Other means of identification

Item#: 1952

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 - Oral	Category 4
Acute Toxicity - Dermal	Category 5
Skin Corrosion/Irritation	Category 1
Serious eye damage/eye irritation	Category 1

Corrosive to metals	Category 1
Oxidizing liquids	Category 2
Organic peroxides	Type G

Label Elements

Emergency Overview

DANGER

Hazard Statements

Harmful if swallowed
May be harmful in contact with skin
Causes severe skin burns and eye damage
May be corrosive to metals
May intensify fire; oxidizer

Appearance Clear Colorless **Physical state** Liquid **Odor** Pungent vinegar-like

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Keep/Store away from clothing/ combustible materials
Take any precaution to avoid mixing with combustibles
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep only in original container

Precautionary Statements - Response
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. Immediately call a POISON CENTER or doctor/physician.
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.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting.

In case of fire: Use water spray to extinguish.
Absorb spillage to prevent material damage.

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	26.5
Acetic acid	64-19-7	1 - 10
Peracetic acid	79-21-0	5.6

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. 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

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water spray, Dry powder, Foam, Carbon dioxide (CO2).

Unsuitable Extinguishing Media
dry chemical.

Specific hazards arising from the chemical
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** 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid contact with the skin and the eyes. Use personal protective equipment.

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, diatomaceus 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. Store at temperatures not exceeding 30°C/ 86°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Other than for transportation, it is recommended NOT to store this product on wooden pallets. Follow all local storage code requirements.

Incompatible Materials dirt, organic materials, reducing agents, bases, heavy metals

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^3	75 ppm
Acetic acid 64-19-7	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm TWA: 25 mg/m^3	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

Physical state Liquid
Appearance Clear Colorless
Odor Pungent vinegar-like
Odor Threshold No information available

Property	Values	Remarks/ Method
pH	3 - 4	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor Pressure	22 mm Hg @ 25C	
Vapor Density	No information available	
Specific Gravity	1.12	
Water Solubility	soluble	
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	No information available	

Other information

Liquid 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, organic materials, reducing agents, bases, heavy metals

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 Product is not identified as having reproductive effects according to OSHA regulations.
STOT - single exposure 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	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m³ (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)

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 Chlorella vulgaris mg/L EC50	10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static 16.4: 96 h Pimephales promelas mg/L LC50 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static	No data available	18 - 32: 48 h Daphnia magna mg/L EC50 Static 7.7: 24 h Daphnia magna 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 Daphnia magna mg/L EC50 Static 47: 24 h Daphnia magna 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)

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

UN-No 3098

Proper Shipping Name Oxidizing liquid, corrosive, n.o.s. (Hydrogen peroxide and Peroxyacetic acid mixture, stabilized)

Hazard Class 5.1 (8)

Packing Group II

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) - Section 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Peracetic acid (CAS# 79-21-0)

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

U.S. EPA Label information

EPA Pesticide registration number 63838-1-4959

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.
Do not enter an enclosed area without proper respiratory protection. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles and face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.
Physical or Chemical Hazards
STRONG OXIDIZING AGENT. CORROSIVE. Mix only with potable water below 140° F. Product must be diluted in accordance with label directions prior to use. PREMIUM PEROXIDE II is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.
Environmental Hazards:
This pesticide is toxic to birds, fish and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollution Discharge System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage plant authority.

16. OTHER INFORMATION

Preparation Date: 21-Dec-2007
Revision Date: 13-Dec-2018
Revision Note: 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