

Pearl OX 22

SAFETY DATA SHEET

Preparation Date: 12-Jun-2018

Revision Date: 13-Feb-2020

Revision Number: 3

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

Product Identifier

Product Name Pearl OX 22

Other means of identification

Item#: 2071

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Food contact substance

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

Skin Corrosion/Irritation	Category 1 Sub-category A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 3
Organic peroxides	Type F

Label Elements

Emergency Overview

DANGER

Hazard Statements

Causes severe skin burns and eye damage
May cause respiratory irritation
Flammable liquid and vapor
Heating may cause a fire



Appearance Clear, Colorless

Physical state Liquid

Odor Pungent, vinegar-like

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep/Store away from clothing/ combustible materials
 Keep container tightly closed
 Keep only in original container
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/lighting/equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash hands and face thoroughly after handling
 Use only outdoors or in a well-ventilated area
 Wear protective gloves/protective clothing/eye protection/face protection

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. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

In case of fire: Use CO2, dry chemical, or foam for extinction.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Acetic acid	64-19-7	15 - 65
Peracetic acid	79-21-0	22
Hydrogen peroxide	7722-84-1	10 - 30

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**General Advice**

Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything by mouth to an unconscious person.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin contact

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. If breathing is difficult, give oxygen.

Ingestion

Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. May cause respiratory irritation. May cause gastrointestinal irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Foam, Dry powder, sand, Water spray, Water fog.

Unsuitable Extinguishing Media

No information available.

Specific hazards arising from the chemical

Heating may cause a fire. Under fire conditions closed containers may rupture or explode. Risk of explosion if heated under confinement.

Sensitivity to static discharge None.

Protective Equipment and Precautions for Firefighters

Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion. Firefighting equipment should be thoroughly decontaminated after use. 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 2

Instability 2

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Eliminate ignition sources. Recover free liquid with corrosion-resistant pumps. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Precautions for Safe Handling****Handling**

Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe vapours. Keep away from sources of ignition - No smoking.

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

DO NOT store near alkalis. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat. Always replace drum, pail, or IBC cap prior to moving the container. 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 reducing agents, Metal salts, alkalis, zinc, Aluminium, Corrodes ferrous and non-ferrous metals. May ignite flammable substances and organic solvents.

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
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		-
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³	75 ppm

Appropriate engineering controls

Engineering Controls Provide adequate general and local exhaust ventilation. Use only with adequate ventilation to keep exposures below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory Protection Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

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	Odor	Pungent, vinegar-like
Appearance	Clear, Colorless	Odor Threshold	No information available
Property	Values	Remarks/ Method	
pH	0.5 - 1.5		
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	No information available
Vapor Density	No information available
Specific Gravity	No information available
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	No information available

Other information

Liquid Density 9.17 - 10.01 lbs/gal

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

May explode or react violently upon contact with incompatible materials.

Conditions to Avoid

Elevated temperature, Direct sunlight, Heat, flames and sparks.

Incompatible Materials

reducing agents, Metal salts, alkalis, zinc, Aluminium, Corrodes ferrous and non-ferrous metals. May ignite flammable substances and organic solvents.

Hazardous decomposition products

Oxygen, Steam, Acetic acid.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**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

Legend:

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.
May cause respiratory irritation.

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
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)
Hydrogen peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m ³ (Rat) 4 h

125% 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
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)
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

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**

Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit. Dispose of in accordance with local regulations. Do not allow the product to be released into the environment.

Contaminated Packaging

Triple rinse containers. Avoid contamination of any water supply with product or empty packaging. Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

UN-No 3109
Proper Shipping Name Organic Peroxide, Type F, Liquid (Peroxyacetic acid, hydrogen peroxide)
Hazard Class 5.2
Subsidiary Class 8

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)

California Proposition 65

WARNING: This product can expose you to chemicals including Sulfuric acid, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Acetic acid 64-19-7	X	X	X
Peracetic acid 79-21-0	X	X	X
Hydrogen peroxide 7722-84-1	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. OTHER INFORMATION

Preparation Date: 12-Jun-2018
Revision Date: 13-Feb-2020
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