

# PermaRein™

# SAFETY DATA SHEET

Preparation Date: 15-Feb-2019

Revision Date: 21-Oct-2020

Revision Number: 1

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

### Product Identifier

**Product Name** PermaRein™

### Other means of identification

**Item#:** 2099

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** Water Treatment Chemical

**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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label Elements

#### **Emergency Overview**

<b>Appearance</b> Brown Clear	<b>Physical state</b> Liquid	<b>Odor</b> Odorless
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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## 4. FIRST AID MEASURES

### Description of first-aid measures

<b>Eye contact</b>	If eye irritation persists, get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or into the face. If eye irritation persists, consult a specialist.
<b>Skin contact</b>	Get medical attention if irritation develops and persists. Rinse skin immediately with plenty of water for 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Inhalation</b>	If breathing difficulty or irritation occurs, remove to fresh air and get medical attention.
<b>Ingestion</b>	If exposed, if you feel unwell, or if concerned: Call a POISON CENTER/doctor.

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

Exposure to this product may cause irritation to skin and eyes.

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

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None known.

**Specific hazards arising from the chemical**

No information available.

**Hazardous Combustion Products**

Phosphorus oxides

**Sensitivity to static discharge**    None.

**Protective Equipment and Precautions for Firefighters**

Incipient fire responders should wear eye protection. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. Do not dispose of fire-fighting water in the environment.

**NFPA**                      **Health hazards** 1                      **Flammability** 0                      **Instability** 0

## 6. ACCIDENTAL RELEASE MEASURES

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

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary personnel away.

**Environmental Precautions**

No information available.

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

SMALL SPILLS (less than 1 gallon): May be flushed to an approved sewer line (with large amounts of water). Larger spills should be absorbed and collected for disposal. Ensure adequate decontamination of tools and equipment following clean up.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Handling** Wear at least chemical resistant gloves and eye protection, face shield, and chemical resistant garments when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.

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

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from physical damage.

**Incompatible Materials** alkalis, oxidizing agents, metals, bases, organic materials

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

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

**Appropriate engineering controls**

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

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

**Eye/face Protection** Safety glasses with side-shields. Goggles. Face-shield.

**Skin and body protection** Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

**Respiratory Protection** Not a respiratory irritant unless dealing with a mist form, then wear appropriate NIOSH respirator.

**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>	Odorless
<b>Appearance</b>	Brown Clear	<b>Odor Threshold</b>	not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	8.8 - 9.8	
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)	Non flammable	
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	1.13 g/mL	
Water Solubility	completely soluble	
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	No information available	
Decomposition temperature	No information available	
Viscosity of Product	20-50 cSt at 20°C / 68°F	

**Dynamic viscosity** No information available

**Other information**

**Liquid Density** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**

Reactive with oxidizing agents, reducing agents, metals, acids, alkalis.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

May react with incompatible materials.

**Conditions to Avoid**

Incompatible Materials.

**Incompatible Materials**

alkalis, oxidizing agents, metals, bases, organic materials

**Hazardous decomposition products**

Potentially dangerous phosphorous oxides.

## 11. TOXICOLOGICAL INFORMATION

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

**Information on likely routes of exposure**

<b>Eyes</b>	May cause redness, stinging, tearing, swelling, itching and/or irritation of the eye. Possible eye damage if left untreated.
<b>Skin</b>	May cause skin irritation including redness, edema, swelling, rash, scaling or blistering, drying and/or cracking of skin.
<b>Ingestion</b>	May cause nausea, vomiting, abdominal pain, gastrointestinal tract burns, gastrointestinal upset and/or diarrhea.
<b>Inhalation</b>	May cause irritation to respiratory system in mist/vapor form.

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

<b>Sensitization</b>	Product is not identified as a sensitizer according to OSHA regulations.
<b>Mutagenic effects</b>	Product is not identified as a mutagen according to OSHA regulations.
<b>Carcinogenicity</b>	Product is not identified as a carcinogen according to OSHA regulations.

<b>Reproductive Effects</b>	Product is not identified as having reproductive effects according to OSHA regulations.
<b>STOT - single exposure</b>	Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.
<b>STOT - repeated exposure</b>	Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.
<b>Aspiration Hazard</b>	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.

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

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

May be harmful to aquatic environment

### Persistence and degradability

Not expected to persist. Readily biodegradable.

### Bioaccumulation/Accumulation

Bioaccumulation: Is not expected to be bio-accumulable.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Waste Disposal Method**

Do not contaminate water, food, or feed by storage and/or disposal. When handling refer to protective measures listed in sections 7 and 8. Dispose of in accordance with federal, state and local regulations.

#### **Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

### DOT

Not regulated

## 15. REGULATORY INFORMATION

State Regulations

### U.S. EPA Label information

**EPA Pesticide registration number** Not applicable

## 16. OTHER INFORMATION

**Preparation Date:** 15-Feb-2019

**Revision Date:** 21-Oct-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**