

# Delasan 15%

# SAFETY DATA SHEET

Preparation Date: 11-Dec-2015

Revision Date: 13-Dec-2018

Revision Number: 6

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

### Product Identifier

**Product Name** Delasan 15%

### Other means of identification

**Item#:** 2244

**Synonyms** None

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

**Recommended use** Biocides

**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

Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 4

### Label Elements

#### Emergency Overview

**DANGER**

#### Hazard Statements

Harmful if swallowed

Harmful in contact with skin

HARMFUL IF INHALED

Causes severe skin burns and eye damage

May cause respiratory irritation

Combustible liquid

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

Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Use only outdoors or in a well-ventilated area  
 Wear protective gloves/protective clothing/eye protection/face protection

**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.

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 dry sand, dry chemical or alcohol-resistant foam to extinguish.

**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	22.0
Acetic acid	64-19-7	24 - 29
Peracetic acid	79-21-0	15.0

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**

<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth. 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. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

**Unsuitable Extinguishing Media**

organic compounds.

**Specific hazards arising from the chemical**

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

**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 2**

**Instability 1**

## 6. ACCIDENTAL RELEASE MEASURES

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

Avoid contact with the skin and the eyes. Use personal protective equipment: For personal protection see section 8. Evacuate personnel to safe areas. Keep away from sources of ignition - No smoking.

**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. Never return spills in original containers for re-use. Drying of this product on clothing or combustible materials may cause fire.

## 7. HANDLING AND STORAGE

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

Keep away from clothing and other combustible materials. Do not breathe vapours or spray mist. Wear personal protective equipment. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use.

**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**

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 <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**                  Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**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	-0.6		
Melting point/freezing point	No information available		
Boiling Point/Range	-50 °C / -58 °F		
Flash Point	79 °C / 174 °F		
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	25 hPa @ 20C		
Vapor Density	No information available		
Specific Gravity	1.15		
Water Solubility	soluble		
Partition coefficient: n-octanol/water	No information available		
Autoignition Temperature	260 °C / 500 °F		
Decomposition temperature	No information available		
Viscosity of Product	No information available		
Dynamic viscosity	No information available		

### Other information

Liquid Density 1.15 g/cm<sup>3</sup> @ 20C

## 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 recommended storage conditions.

### Possibility of hazardous reactions

Contact with combustible material may cause fire. Oxidizing agent.

### Conditions to Avoid

Extremes of temperature and direct sunlight. Protect from contamination.

### Incompatible Materials

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/m <sup>3</sup> ( Rat ) 4 h
Acetic acid	= 3310 mg/kg ( Rat )	= 1060 mg/kg ( Rabbit )	= 11.4 mg/L ( Rat ) 4 h

64-19-7			
Peracetic acid 79-21-0	9-203 mg/kg ( Rat )	12000 mg/kg ( Rat ) 56-226 mg/kg ( Rabbit )	76 -> 241 mg/l (rat)

33% 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	10.0 - 32.0: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 16.4: 96 h <i>Pimephales promelas</i> mg/L LC50 18 - 56: 96 h <i>Lepomis</i> <i>macrochirus</i> mg/L LC50 static	No data available	18 - 32: 48 h <i>Daphnia</i> <i>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)

### Persistence and degradability

Readily biodegradable.

### Bioaccumulation/Accumulation

Not likely to bioaccumulate.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Waste Disposal Method

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

#### Contaminated Packaging

Triple rinse containers. 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, type F Stabilized - 14-17%, contains acetic acid )
Hazard Class	5.2
Subsidiary Class	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** 54289-4-82882

#### **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**

##### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes on skin or on clothing. Wear goggles and/or face shield and rubber gloves when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

##### PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. DELASAN 15% is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

## 16. OTHER INFORMATION

**Preparation Date:** 11-Dec-2015

**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**