

# LoFreeze™ Caustic

# SAFETY DATA SHEET

Preparation Date: 07-May-2007

Revision Date: 08-Sep-2021

Revision Number: 3

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

### Product Identifier

Product Name LoFreeze™ Caustic

### Other means of identification

Item#: 1957

Synonyms None

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

Recommended use Cleansing agents, alkaline

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 : 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)

Skin Corrosion/Irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

### Label Elements

#### Emergency Overview

**DANGER**

#### Hazard Statements

Causes severe skin burns and eye damage



**Appearance** Clear Colorless

**Physical state** Liquid

**Odor** Faint Characteristic

#### Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

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

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: Rinse mouth. Do NOT induce vomiting.

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Sodium hydroxide	1310-73-2	50 - 60
Potassium hydroxide	1310-58-3	1 - 10

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. Call a physician immediately.
<b>Inhalation</b>	Move to fresh air. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	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**

Corrosive. 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**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

No information available.

**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 0 Instability 0

## 6. ACCIDENTAL RELEASE MEASURES

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

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Handling** Avoid contact with skin, eyes and clothing.

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

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Materials** Acids

## 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
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	-

**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.

**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>	Faint Characteristic
<b>Appearance</b>	Clear Colorless	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
<b>pH</b>	No information available	
<b>Melting point/freezing point</b>	0 °C 32 °F	
<b>Boiling Point/Range</b>	768.54 °C 1415.37 °F	
<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>	0.35 hPa estimated	
<b>Vapor Density</b>	No information available	
<b>Specific Gravity</b>	1.53	
<b>Water Solubility</b>	soluble	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition Temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity of Product</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive Properties</b>	Not an explosive	

### Other information

<b>Liquid Density</b>	12.76 lbs/gal
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## 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.

### Incompatible Materials

Acids

### Hazardous decomposition products

None known.

## 11. TOXICOLOGICAL INFORMATION

<b><u>Principal Routes of Exposure</u></b>	Eye contact, Skin contact, Ingestion, Inhalation
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### Information on likely routes of exposure

<b>Eyes</b>	Corrosive to the eyes and may cause severe damage including blindness.
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<b>Skin</b>	Extremely corrosive and destructive to tissue.
<b>Ingestion</b>	Ingestion causes burns of the upper digestive and respiratory tracts.
<b>Inhalation</b>	May cause irritation of respiratory tract.

**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.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide 1310-73-2	140 - 340 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	No data available
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	No data available	No data available

48% 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
Sodium hydroxide 1310-73-2	No data available	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	No data available	No data available
Potassium hydroxide 1310-58-3	No data available	80: 96 h Gambusia affinis mg/L LC50 static	No data available	No data available

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

**Other adverse effects**

No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

<b>Waste Disposal Method</b>	Dispose of in accordance with local regulations. Should not be released into the environment.
<b>Contaminated Packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

**DOT**

<b>UN-No</b>	3266
<b>Proper Shipping Name</b>	Corrosive liquid, basic, inorganic, n.o.s ( Sodium hydroxide )
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

## 15. REGULATORY INFORMATION

**State Regulations**

<b>Chemical name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
Sodium hydroxide 1310-73-2	X	X	X
Potassium hydroxide 1310-58-3	X	X	X

**U.S. EPA Label information**

**EPA Pesticide registration number** Not applicable

## 16. OTHER INFORMATION

**Preparation Date:** 07-May-2007  
**Revision Date:** 08-Sep-2021  
**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**