

# HiTemp<sup>™</sup> Acid 555 Preparation Date: 16-Jul-2008

Revision Date: 02-Sep-2021

**Revision Number: 5** 

SAFETY DATA SHEET

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

<u>Product Identifier</u> Product Name	HiTemp™ Acid 555
<u>Other means of identification</u> Item#: Synonyms	1702 None
<u>Recommended use of the chemical</u> Recommended use Uses advised against	and restrictions on use Acid detergent, Acidic product for mineral scale removal, Restricted to professional users All other
<u>Details of the supplier of the safety</u> Supplier	<u>data sheet</u> DeLaval Cleaning Solutions 11100 N. Congress Ave. Kansas City, MO 64153 : 816-891-7700, 8am – 5pm M-F
Franziska v Talankana Numkar	

## 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 - Inhalation (Gases)	Category 2
Skin Corrosion/Irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A

#### Sulfuric acid and other mineral acids mist statement

The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric or other strong mineral acids (such as Hydrochloric and Nitric acid) as a known human carcinogen, (IARC category 1). This classification applies only to mists containing such mineral acids and not to the specific acids or their solutions, unless otherwise noted.

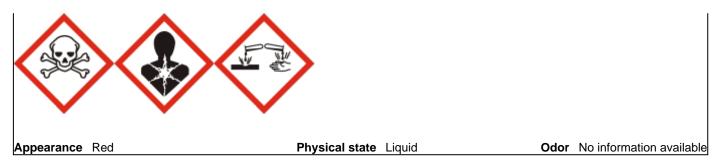
Corrosive to metals	Category 1

## Label Elements

**Emergency Overview** 

# DANGER

Hazard Statements Fatal if inhaled Causes severe skin burns and eye damage May cause cancer May be corrosive to metals



## **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Wash face, hands and any exposed skin thoroughly after handling 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. 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.

Absorb spillage to prevent material damage.

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant container with a resistant inner liner

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No.	Weight-%
Nitric acid	7697-37-2	30 - 40

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. Get medical attention immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation

Move to fresh air. Get medical attention immediately if symptoms occur.

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

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
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## 6. ACCIDENTAL RELEASE MEASURES

Instability 1

### 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. DO NOT use combustible materials such as sawdust. 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.

 Store in a well-ventilated place. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner.

# Incompatible Materials bases, organic materials, light metals (e.g. aluminum, copper, brass, zinc galvanized), bleach

## 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
Nitric acid	TWA: 2 ppm	TWA: 2 ppm	25 ppm
7697-37-2	STEL: 4 ppm	TWA: 5 mg/m <sup>3</sup> STEL: 4 ppm STEL: 10 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	Goggles.
Skin and body protection	Wear protective gloves and protective clothing.
<b>Respiratory Protection</b>	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 Appearance	Liquid Red	Odor Odor Threshold	No information available No information available
Property	Values	Remarks/ Method	
рН	2		
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	No information available		
Upper flammability limit	No information available		
Lower flammability limit	No information available		
Vapor Pressure	No information available		
Vapor Density	No information available		
Specific Gravity	1.24		
Water Solubility	soluble		
Partition coefficient:	No information available		
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	10.3 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

Gives off hydrogen by reaction with some metals (e.g. aluminum). Contact with combustible material may cause fire.

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

bases, organic materials, light metals (e.g. aluminum, copper, brass, zinc galvanized), bleach

## Hazardous decomposition products

None known.

## **11. TOXICOLOGICAL INFORMATION**

## Principal Routes of Exposure

Eye contact, Skin contact, Ingestion

#### Information on likely routes of exposure

Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Extremely corrosive and destructive to tissue.
Ingestion	Ingestion causes burns of the upper digestive and respiratory tracts.

#### 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
Nitric acid	Not Listed	Group 1	Not Listed	Not Listed
7697-37-2				

Legend:

IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

Sulfuric acid and other mineral acids mist statement	The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric or other strong mineral acids (such as Hydrochloric and Nitric acid) as a known human carcinogen, (IARC category 1). This classification applies only to mists containing such mineral acids and not to the specific acids or their solutions, unless otherwise noted.
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
Nitric acid	No data available	No data available	= 130 mg/m <sup>3</sup> (Rat) 4 h = 2500
7697-37-2			ppm(Rat)1 h

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
Nitric acid	No data available	72: 96 h Gambusia affinis	No data available	No data available
7697-37-2		mg/L LC50		

#### 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

**Contaminated Packaging** 

14. TRANSPORT INFORMATION

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

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

# DOT

UN-No	2031
Proper Shipping Name	Nitric Acid Solution
Hazard 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:

environment.

Nitric acid (CAS# 7697-37-2)

State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Nitric acid	Х	Х	Х
7697-37-2			

## U.S. EPA Label information

EPA Pesticide registration number Not applicable

# **16. OTHER INFORMATION**

Preparation Date:	16-Jul-2008
Revision Date:	02-Sep-2021
Revision Note:	None
Disclaimer	

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