



LidoQuest[®] FeDTPA 11%

SAFETY DATA SHEET

Page: 1 of 8

SDS#: 1055

Review/Revision Date: 01/10/17

SECTION 1 - General Information And Chemical Product Identification

Trade Name: LidoQuest[®] FeDTPA 11%

CAS #: 12389-75-2

Chemical Name: Diethylenetriaminopentaacetic acid, ferric disodium salt

Product Code: FEDTPA11SIC

Application/Uses/ Foliar application for supplying micronutrients to various crops.

Restrictions NONE SPECIFIED

Distributor Information LidoChem, Inc. 20 Village Court, Hazlet, NJ 07730, Phone: (732) 888 8000

Fax: (732) 264 2751 * email: info@lidochem.com

Emergency phone #: CHEMTREC - Day or Night - at 800 424 9300

SECTION 2 - Hazard(s) Identification

Classification of the substance or mixture (GHS-US)

Not a hazardous substance or mixture.

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

None

No label elements required

Physical Hazards

None

PREVENTION: Not Applicable

Hazard Statement

None

RESPONSE: Not Applicable

STORAGE: Not Applicable

DISPOSAL: Not Applicable

OSHA Defined Hazards

This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

HNOC - Hazards Not Otherwise Classified

No other hazards classified

Signal Word

None

SECTION 3 Composition/information On Ingredients

Molecular Weight: 468.2

Chemical FORMULA: C₁₄ H₁₈ N₃ O₁₀ FeNa₂

CAS#:	Common Name/Synonyms:	% by Wt.
12389-75-2	Diethylenetriaminopentaacetic acid, ferric disodium salt	92%
7732-18-5	Water	8%

SECTION 4 - First Aid Information

Description of first aid measures

General Advice:

No hazards which require special first aid measures.

If Inhaled:

Remove to fresh air. Rinse nose and mouth with water. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention if irritation occurs.

In Case Of Skin Contact:

Remove contaminated clothing and equipment. Wash all affected areas with soap and water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Wash any contaminated clothing and shoes before reuse. Obtain medical advice if irritation occurs.

In Case Of Eye Contact:

Flush eyes with large quantities of running water for a minimum of 15 minutes. If present and easy to do, remove contact lenses. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation occurs.

If Swallowed:

If victim is conscious and alert, give 2-3 glasses of water to drink and do not induce vomiting. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.** Seek medical attention if health effects occur. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Most important symptoms and effects, both acute and delayed:

Acute: At high dust concentrations, irritation of eyes, skin and mucous membranes by chemical or mechanical action may occur.
Chronic: None found.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically. No specific product related symptoms are known.

SECTION 5 - Fire And Explosion Data

Suitable Extinguishing Media:

This product is noncombustible. If involved in a fire, extinguishing media suitable for surrounding materials should be used. Use water fog or spray, dry chemical, foam or carbon dioxide extinguishing agents.

Unsuitable Extinguishing Media:

None specified

Specific Hazards arising from the chemical:

In case of fire or explosion, do not breathe fumes. Nitrogen oxide and carbon oxides may develop.

Special protective equipment and precautions for fire-fighters:

Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Fire-fighting equipment/instructions

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area.

Specific Methods

Standard procedure for chemical fires.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Do not touch or walk through spilled material. Keep Unauthorized personnel away. After wearing and using recommended protective equipment, stop source of spill if safe to do so and dike area to contain spill. See Section 8 for personal protective equipment.

Environmental Precautions:

Consult with environmental regulatory agencies for acceptable procedures of disposal.

Methods and Materials for Containment and Clean Up:

Sweep up spilled solid material, being careful not to create dust. Use clean non-sparking tools and equipment. Return sweeping to stock or, if contaminated, place into a chemical waste container for disposal. Wash away residue with water, without contaminating drains. Soak up wash water with suitable absorbent or sand, sweep up and dispose of in accordance with local regulations.

Section 7- Handling and Storage

Precautions for safe handling:

Avoid direct or prolonged contact with skin and eyes. Store in tightly closed containers in a cool, dry place when not being used. Product is hygroscopic. Ambient temperature (below 25°C / 77°F) Avoid raising dust.

Conditions for safe storage:

Store in tightly closed containers in a cool, dry place when not being used. Product is hygroscopic. Ambient temperature (below 25°C / 77°F) Avoid raising dust. In certain concentrations, this product may form an explosive dust-air mixture.

Incompatibilities:

Incompatible with strong oxidizers. Avoid prolonged storage at elevated temperatures. Avoid humid conditions as product is hygroscopic. Product layer on hot surface might cause glowing or autoignition.

Section 8 - Exposure Control and Personal Protection

Occupational Exposure Limits:

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Diethylenetriaminopentaacetic acid,ferric	12389-75-2			ACGIH Threshold Limit Values	
Water	7732-18-5			ACGIH Threshold Limit Values	
				ACGIH Threshold Limit Values	

Exposure Limits and Appropriate Engineering Controls:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (ACGIH, OSHA and other) apply to this material, where, if indicated, S=skin and C=ceiling limit:
ACGH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED : 10 mg/cubic meter(INHALABLES)

Individual Protection Measures, (Personal Protective Equipment):

Eye Protection

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Indirect vented, dust-tight goggles should be work when handling this product. As a general rules, do not wear contact lenses when handling.

Skin Protection

Skin contact should be prevented through use of suitable protective clothing, gloves made with Nitrile rubber and footwear, selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Other Protection:

Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

Respiratory Protection

If handling operations generate dust, wear select NIOSH/MSHA approved half mask, air purifying respirator with dust, mist and fume filters to reduce potential for inhalation exposure. Do not inhale dust. When using respirator cartridges or canisters, they must be changed frequently (following each use or at the end of the work shift) to assure breakthrough exposure does not occur.

Ventilation Limits:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation.

Hygienic Practices:

All food / smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.

Section 9 - Physical and Chemical Properties

Appearance And Odor: Odorless, Yellow green powder

pH: 3.0

Melting Point: Decomposes w/o melting

Freezing Point: Not applicable

Boiling Point: Not applicable

Flash Point: Noncombustible

Evaporation Rate: No information available

Solubilities: 110 g/l (20°deg C in water)

Specific Gravity: No information available

Bulk Density: 650-750 kg/m3

Other Information:

Flammable Limits: Not applicable

UEL: Not applicable

LEL: Not applicable

Vapor Pressure(mm/hg): No information available

Vapor Density(air=1): No information available

Autoignition Temp: No information available

Decomposition Temp: No information available

Reactivity In Water: No information available

Viscosity: No information available

Section 10 - Stability and Reactivity

Chemical Stability and Reactivity:

This product is stable at ambient temperatures and atmospheric pressures. It is not self reactive and is not sensitive to physical impact.

Possible Hazardous Reactions:

Under fire conditions, the product may support combustion and decomposes to give off Carbon oxides nitrogen oxides (NOx) and water vapor.

Conditions to Avoid:

Contact with strong oxidizers and prolonged storage at elevated temperatures

Incompatible Materials:

Incompatible with strong oxidizers. Avoid prolonged storage at elevated temperatures. Avoid humid conditions as product is hygroscopic. Product layer on hot surface might cause glowing or autoignition.

Hazardous Decomposition Products:

For temperatures above the decomposition temperature (180° C) nitrous gases can be formed.

Section 11- Toxicological Information

Information On The Likely Routes Of Exposure: Inhalation, Ingestion and Dermal.

Symptoms Related To The Physical, Chemical And Toxicological Effects:

Inhalation Effects:

The acute LC50 is not available. Inhalation of dust may cause discomfort and/or irritation of the respiratory system. No known chronic effects.

Skin Effects:

No test data found for product. However, it is not considered to be irritating to skin based on tests with similar products. No known chronic effects.

Dermal Toxicity:

Dermal toxicity data is not available. However, it is not considered to be irritating based on tests with chemically similar products.

Eye Effects:

No test data found for product. However, it is not considered to be irritating based on tests with chemically similar products.

Ingestion Effects:

LD 50 Oral (Rat) >2000 mg/kg. No known chronic effects.

Sensitization:

No known effects.

Carcinogenicity/Mutagenicity:

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens. No data available for mutagenicity.

Reproductive Effects:

No reproductive data available. STOT No data available

Neurotoxicity:

The neurotoxic effects of this product are not known.

Target Organs:

Target organ effects of this material are not available.

Additional Toxicological Information:

No other toxic effects for this product are known.

Section 12- Ecological Information

Ecotoxicity: No data available

Degradability: Not readily biodegradable.

Bioaccumulative potential: No data available

Mobility in the Soil: No data available

Additional Adverse effect on environment:

No experimental ecological data are available. The following information has been provided on the basis of structurally similar products:

Biodegradability: This product is not readily biodegradable.

It is NOT expected to be harmful to aquatic life based on data with related products.

SECTION 13 - Disposal Considerations

Disposal Instructions and Regulations:

Empty packaging and plastic sacks, should be washed before sending to incinerators or waste disposal depots. Remaining product to be disposed of for deterioration or bad condition should be preferably returned to the manufacturer. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate.

Hazardous Waste Code: Not considered a hazardous waste

Container Disposal Information:

Containers should be cleaned of residual product before disposal. Empty containers can retain product residue. Empty containers should be disposed of in accordance with all applicable laws and regulations. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Follow label warnings even after emptied.

Section 14 - Transport Information

US DOT, IATA, IMO, ADR:

Proper Shipping Name: Diethylenetriaminepentaacetic Acid, (D.T.P.A.) Ferric-Sodium Fe 11%

D. O. T. Hazard Class: N/Ap

UN #: None

Label Requirement: None

RQ: N/Ap

Placard: None

CAS: 12389-75-2

Packing Group: N/Ap

ERG Book Information: Page 171

Environment Hazards: No

Marine Pollutant: No

Special Precautions: No

IATA: Not regulated as dangerous goods.

Section 15 - Regulatory Information

US Federal - OSHA Status:

This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

TSCA Status:

Listed/Reportable

U.S. SARA Reporting Requirements:

SARA Title III Hazard Classes Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

SARA Title III Hazard Classes Sections 311/312:

Immediate (acute) health hazard

SARA Section 313 Toxic Chemicals:

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

CAS# **Chemical Name:**

This material does NOT contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

SARA Superfund Section 110:

This product does NOT contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

CERCLA, 40 CFR 117, 302:

This product does NOT contain ingredients specified in the List of Extremely Hazardous Substances.

CERCLA listed substances are:

None

Other Federal Reporting Requirements:

CAA: This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act
CWA: No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.
RCRA: Not considered a hazardous waste under RCRA.

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
		NONE

CALIFORNIA PROPOSITION 65:

This product does NOT contain a chemical or chemicals subject to California Proposition 65.

Michigan Critical Materials:

This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

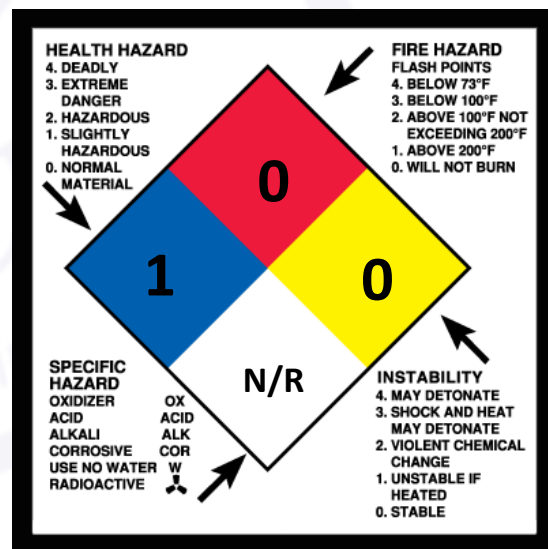
Global Lists/International Inventories:

Canada CEPA: Not listed on the Canadian DSL
Canada WHMIS: Not a WHMIS listed component

SECTION 16 - Other Information

Proprietary Information - exclusive rights of manufacture to be kept confidential

5-21-15 - SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's -



Date of last revision:

1-10-2017

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.

Key Legend Information:

N/Ap:	Not Applicable	ND:	Not Determined
N/R:	Not Rated	NDA:	No Data Available
ACGI:	American Conference of Govr'ntal Industrial Hygienists	TLV:	Threshold Limit Value
OSHA:	Occupational Safety and Health Administration	TWA:	Time Weighted Average
PEL:	Permissible Exposure Limit	NTP:	National Toxicology Program
STEL:	Short Term Exposure Limit	TSCA:	Toxic Substance Control Act
IARC:	International Agency for Research on Cancer	CERCLA:	Comprehensive Response, Compensation and Liability Act
SARA Title III:	Superfund Amendments and Reauthorization Act	CWA:	Clean Water Act
CAA:	Clean Air Act	IMO:	International Maritime Organization Shipping Info.
RCRA:	Resource Conservation Recovery Act	WHMIS:	Workplace Hazardous Materials Information System
IATA:	International Air Transport Association Shipping Info.		
DSL:	Domestic Substance List (Canada)		

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Safety Data Sheet was prepared to comply with OSHA Hazard Communication standard. (29 CFR 1910.1200 HazCom 2012). This supersedes any previous information. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by LidoChem, Inc. as to the effects of such use or the results to be obtained, nor does LidoChem, Inc. assume any liability arising out of use, by others, of the products referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist because of applicable laws or government regulations. All LidoChem Inc. SDS's are reviewed every three years or sooner if necessary. Please check the Review Date on Page 1 for most current version. Please request a new SDS from LidoChem, Inc. if the date is older than 3 years.