



LidoQuest[®] Fe 6% EDDHA - 80 % Ortho

SAFETY DATA SHEET

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SDS#: 1382

Review/Revision Date: 08/22/19

SECTION 1 - General Information And Chemical Product Identification

Trade Name: **LidoQuest[®] Fe 6% EDDHA - 80 % Ortho**

CAS #: **16455-61-1**

Chemical Name: **Ethylendiammino-N-N'-bis (2 Hidroxy) Phenilacetic Acid Sodium Ferric Complex**

Product Code:

Application/Uses/ **Fertilizing Compound - Used in prevention and cure of iron chlorosis, particularly in fruit producing plants, vegetables, flowering crops and ornamental plants.**

FeEDDHA6/80HEB

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 considered hazardous

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: **434.8**

Chemical FORMULA: **C₁₈H₁₆O₆N₂NaFe**

CAS#:	Common Name/Synonyms:	% by Wt.
16455-61-1	Ethylendiammino-N-N'-bis (2 Hidroxy) phenilacetic acid sodium ferric complex	.98
7732-18-5	Water	.02

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. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention.

In Case Of Skin Contact:

Immediately wash with soap and water for a minimum of 15 minutes. Wash clothing before reuse and discard footwear which cannot be cleaned. Get immediate medical attention if irritation occurs.

In Case Of Eye Contact:

Flush eyes with large quantities of running water for a minimum of 15 minutes. If victim is wearing contact lenses, remove them. 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:

The mouth should be thoroughly washed out with water. If person is conscious, give large amounts of water. Do not induce vomiting. Get medical attention. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.**

Most important symptoms and effects, both acute and delayed:

ACUTE: At high dust concentrations, irritation of eyes, skin, nose and upper respiratory tract by chemical or mechanical action may occur. **Skin:** May cause irritation **Eye:** Irritation and possible damage **Inhalation:** Dust may cause irritation of respiratory tract and symptoms of bronchitis may result. **Ingestion:** May result in irritation of mouth, throat and stomach **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:

The product may smolder and support combustion. Store away from heat source.

Special protective equipment and precautions for fire-fighters:

Firefighters 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:

Stop source of spill if safe to do so. 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:

Use appropriate personal protective equipment as specified. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage:

Keep container well closed and store in a dry, well ventilated place away from sunlight. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices. The product is hygroscopic and photosensitive. Avoid extremes of temperatures.

Incompatibilities:

This product is incompatible with strong oxidizers.

Section 8 - Exposure Control and Personal Protection

Occupational Exposure Limits:

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Ethylendiammino-N-N'-bis (2 Hidroxy) ferric complex	16455-61-1			ACGIH Threshold Limit Values	none
Water	7732-18-5			ACGIH Threshold Limit Values	

Exposure Limits and Appropriate Engineering Controls:

There are no known exposure limits applicable to this product or its components. Exposure to this product should be controlled below the limits established for "Particulates Not Otherwise Classified (PNOC)": OSHA – 15 mg/m³ (total dust) ; 5 mg/m³ (respirable fraction)

Individual Protection Measures, (Personal Protective Equipment):

Eye Protection

Eye/face protection requirements vary depending upon work environment conditions and material handling practices. Use ANSI Z87 approved chemical safety glasses with side shields or splash proof goggles and face shield to prevent eye/face contact. Emergency eye wash must be readily accessible to work area.

Skin Protection

Skin contact should be prevented through use of suitable protective clothing, PVC rubber gloves 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:

Product is easily removed with soap and water. 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

When dust standards are exceeded, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations. Always wear NIOSH approved particulate approved respirator.

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:

Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. All food and smoking materials should be kept in a separate area away from the storage/use location. 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 Brownish Red Microgranular

pH: 7-9%

Melting Point: Breaks down without melting

Freezing Point: No data available

Boiling Point: No data available

Flash Point: No data available

Evaporation Rate: No data available

Solubilities: 30 g/100ml (at 20 Deg. C)

Specific Gravity: No data available

Bulk Density: 0.7 g/cm³

Other Information:

Flammable Limits: Not applicable

UEL: Not applicable

LEL: ≥ 40 g/m3

Vapor Pressure(mm/hg): Not applicable

Vapor Density(air=1): Not applicable

Autoignition Temp: > 392°F (200°C) / glowing of 5 mm product layer

Decomposition Temp: No data available

Reactivity In Water: none

Viscosity: No data available

Section 10 - Stability and Reactivity

Chemical Stability and Reactivity:

This product is stable under recommended storage and handling conditions (see section 7). It is not self-reactive and is not sensitive to physical impact.

Possible Hazardous Reactions:

Hazardous polymerization is not expected to occur under normal temperatures and pressures.

Conditions to Avoid:

Avoid prolonged storage at elevated temperatures. Exposure to sunlight may cause degradation of the product. Avoid humid conditions as product is hygroscopic. Product layer on hot surface might cause glowing or auto-ignition.

Incompatible Materials:

This product is incompatible with strong oxidizers.

Hazardous Decomposition Products:

Thermal decomposition products may release toxic and/or hazardous fumes and gases, including nitrogen oxides, carbon oxides, metal oxides and water vapor.

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:

This product is not irritating to skin, eyes and respiratory system.

Skin Effects:

This product is not irritating to skin, eyes and respiratory system.

Dermal Toxicity:

This product is not irritating to skin, eyes and respiratory system.

Eye Effects:

This product is not irritating to skin, eyes and respiratory system.

Ingestion Effects:

LD 50, Oral, rat, 200 mg/kg

In a repeated 90-day oral study on rats, the NOAEL = 10 mg/kg.

In a repeated 28-day dermal study on rats, the NOEL = 100 mg/kg (slight effects on liver and skin with increased adrenal weight noted).

Sensitization:

No data found for product.

Carcinogenicity/Mutagenicity:

Not listed as a carcinogen by NTP, IARC or OSHA. No information found on Mutagenicity.

Reproductive Effects:

No 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 found for product.

Degradability: Not expected to be readily biodegradable based on tests with structurally related products.

Bioaccumulative potential: No data found for product.

Mobility in the Soil: No data found for product.

Additional Adverse effect on environment:

The following data is available for Ferric sodium EDDHA: Fish (zebra fish): 96h LC50 > 120 mg/L

Daphnia magna: 48h EC50 = 120 mg/L ; 21-day NOEC = 320 mg/L Algae: Static ErC50 = 294 mg/L ; ErC10 = 8.2 mg/L

SECTION 13 - Disposal Considerations

Disposal Instructions and Regulations:

(Consult federal, state and local regulations) Consult with environmental regulatory agencies for acceptable procedures of disposal. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate. Containers should be cleaned of residual product before disposal or return. Since emptied containers retain product residue, follow label warnings even after container is emptied. Empty containers should be disposed of or shipped in accordance with all applicable laws and regulations.

Hazardous Waste Code: Not considered a hazardous waste

Container Disposal Information:

Dispose of according to federal, state and local regulations.

Section 14 - Transport Information

US DOT, IATA, IMO, ADR:

Proper Shipping Name: Ethylenediamino-N-N'-bis (2 Hidroxy) phenilacetic acid sodium ferric complex

D. O. T. Hazard Class: Not Regulated by D.O.T.

UN #: none

Label Requirement: None

RQ: N/Ap

Placard: None

CAS: 16455-61-1

Packing Group: N/A

ERG Book Information: None

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 on the Active TSCA List

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:

N/A

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.

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
		None

CALIFORNIA PROPOSITION 65:

To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Michigan Critical Materials:

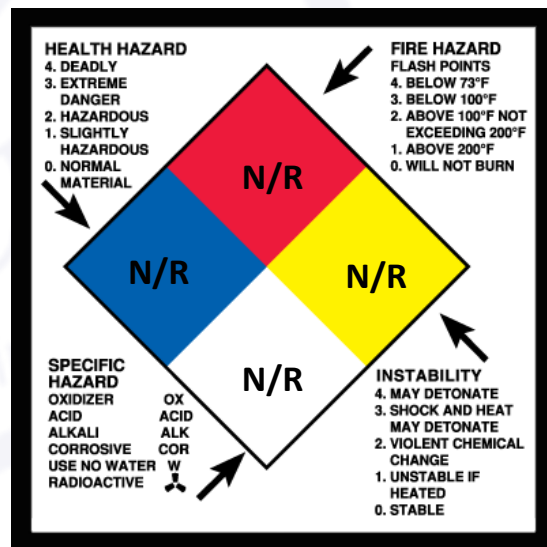
This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

Global Lists/International Inventories:

Canada CEPA: No components listed on the Canadian DSL
Canada WHMIS: Not a controlled product according to WHMIS classification criteria

SECTION 16 - Other Information

Proprietary Information - exclusive rights of manufacture to be kept confidential.
 5-26-16 SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's -
 8-20-18 - Reviewed, updated California Proposition 65 statement, this replaces all previous SDS's.
 8-22-19 - Updated TSCA inventory - product is on the active TSCA list.



Date of last revision:

8-22-2019

Reach Number EU

LidoQuest® Fe 6% EDDHA - 80 % Ortho
SAFETY DATA SHEET

LidoChem, Inc.

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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.