



SAFETY DATA SHEET

According to 29 CFR 1910.1200

EDDHA Fe 6%

Date of issue: February 16, 2018 Revision date: - Version: -

SECTION 1.- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Substance name 6% Iron chelate EDDHA
CAS No. 16455-61-1
Formula $C_{18}H_{16}O_6N_2NaFe$
Synonyms Ethylenediamino-N-N'-bis (2 Hidroxy) phenilacetic acid sodium ferric complex

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture Agriculture - Chelated Micronutrient

1.3 Details of the supplier of the safety data sheet

Pima Chemicals & Fertilizers, LLC
1370 Nogales, Az.
Tel. 011 52 (662) 182-0559
rgutierrez@quimicapima.com

Química Pima, S.A. de C.V.
Del Cobre 20, Parque Industrial Hermosillo.
Hermosillo, Sonora, México. C.P. 83297
Tel. 011 (662) 251-0010 ventas@quimicapima.com

1.4 Emergency telephone number

Emergency number CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

SECTION 2.- HAZARD IDENTIFICATION

2.1. GHS-US classification

Not considered hazardous

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) None

Signal word (GHS-US): None

Hazard statement (GHS-US): None

Precautionary statements (GHS-US): Not Applicable

Not Applicable

Not Applicable

Not Applicable

2.3. Other hazards

Not classified.

2.4 Unknown acute toxicity (GHS-US)

Not applicable.

SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Substance Not applicable.

3.2 Mixture

Name	Product identifier	%	GHS-US classification
EDDHA Fe	(CAS No.) 16455-61-1	98	Not applicable



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SECTION 4.- FIRST AID MEASURE

4.1. Description of first aid measure

First-aid measures general	No hazards which require special first aid measures.
First-aid measures after 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.
First-aid measures after 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.
First-aid measures after inhalation	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.
First-aid measures after ingestion	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.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	Dust may cause irritation of respiratory tract and symptoms of bronchitis may result.
Symptoms/injuries after skin contact	May cause irritation.
Symptoms/injuries after eye contact	Irritation and possible damage.
Symptoms/injuries after ingestion	May result in irritation of mouth, throat and stomach.
Chronic symptoms	None Found

4.3. Indications of any immediate medical attention and special treatment needed

Treat symptomatically. No specific product related symptoms are known.

SECTION 5.- FIREFIGHTING MEASURES

5.1. Extinguishing media

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

5.2. Special hazard arising from the substance or mixture

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

5.3. Advice for firefighters

Protective equipment	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Emergency procedures	In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out.



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SECTION 6.- ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	Safety glasses.
Emergency procedures	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.1.2. For emergency responders

Protective equipment	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Emergency procedures	Do not breathe fumes or vapors from fire decomposition. If possible, stop flow of product. Contain and collect any solid. Ventilate area.

6.2. Environmental precautions

Consult with environmental regulatory agencies for acceptable procedures of disposal.

6.3. Methods and material for containment and cleaning 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.

6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7.- HANDLING AND STORAGE

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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. This product is incompatible with strong oxidizers.

7.3 Specific end use(s) No additional information available.

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
EDDHA Fe	-	-	-

8.2. Exposure controls

Hygiene measures	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.
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Skin protection	Facilities storing or using this material should be equipped with an eyewash and safety shower. 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.
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.
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.
Other information	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.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid	Appearance:	Microgranular
Odor:	Odorless	Color:	Brownish red
Molecular mass			No data available.
Odor threshold			No data available.
pH			7 - 9
pH solution			No data available.
Relative evaporation rate (butyl acetate=1)			No data available.
Melting point			Breaks down without melting
Freezing point			No data available.
Boiling point			No data available.
Flash point			No data available.
Self ignition temperature			> 392°F (200°C) / glowing of 5 mm product layer
Decomposition temperature			No data available.
Flammability (solid, gas)			No data available.
Vapor pressure			No data available.
Relative vapor density at 20°C			No data available.
Bulk density			0.7 g/cm ³
Specific gravity			No data available.
Solubility			30 g/100ml (at 20°C)
Log Pow			No data available.
Log Kow			No data available.
Viscosity, kinematic			No data available.



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Viscosity, dynamic	No data available.
Explosive properties	No data available..
Oxidizing properties	No data available.
Explosive limits	No data available.

9.2 Other information

No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

10.1 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.
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
10.4 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.
10.5 Incompatible materials	This product is incompatible with strong oxidizers.
10.6 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

11. 1. Information on toxicological effects

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

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ inhalation
EDDHA Fe	200 mg/kg (rat)	-	-

Skin corrosion/irritation	This product is not irritating to skin, eyes and respiratory system.
Serious eye damage/irritation	This product is not irritating to skin, eyes and respiratory system.
Respiratory or skin sensitization	No data found for product.
Germ cell mutagenicity	No information found on Mutagenicity.
Carcinogenicity	Not listed as a carcinogen by NTP, IARC or OSHA.
Reproductive toxicity	No data available. STOT No data available
Specific target toxicity (single exposure)	Target organ effects of this material are not available.
Specific target toxicity (repeat exposure)	Target organ effects of this material are not available.
Aspiration hazard	No other toxic effects for this product are known.
Potential adverse human health effects and symptoms	No other toxic effects for this product are known.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data found for product.



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12.2 Persistence and degradability

EDDHA Fe	
Persistence and degradability	Not expected to be readily biodegradable based on tests with structurally related products.

12.3 Bioaccumulative potential

EDDHA Fe	
Bioaccumulative potential	No data found for product.

12.4 Mobility in soil

No data found for product.

12.5 Other adverse effects

Other information

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

13.1. Waste treatment methods

Waste disposal recommendations	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Ecology-waste materials	Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Care should be taken when handling empty containers that have not been cleaned or rinsed.

SECTION 14.- TRANSPORT INFORMATION

14.1. UN number	Not regulated by DOT
14.2. UN proper shipping name	Not regulated.
14.3. Additional information	
Other information	Not regulated.
Overland transport	Not regulated.
Transport by sea	Not regulated.
Air transport	Not regulated.

SECTION 15.- REGULATORY INFORMATION

US Federal regulations

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



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TSCA Status	Listed/Reportable
SARA 302	This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.
SARA 311/312 Hazard Categories	N/A
SARA 313	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.
CWA (Clean Water Act)	Not listed.
Clean Air Act	Not regulated.
OSHA	Not listed.
CERCLA	This product does NOT contain ingredients specified in the List of Extremely Hazardous Substances.
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N
U.S. Department of Homeland Security	
This product does not contain any DHS chemicals.	
Other International Regulations	
Mexico - Grade	No information available

SECTION 16.- OTHER INFORMATION

NFPA	NFPA health hazard	-	NFPA fire hazard	-	NFPA instability hazard	-	NFPA Special hazard	-
HMIS III	Health	-	Flammability	-	Physical	-	Personal Protection	-

- Safety glasses, gloves and dust respirator.



Other information:	None.
Made for:	Quimica Pima, S.A. de C.V. Del Cobre No. 20 Parque Industrial. Hermosillo, Sonora, México. 83297.
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Revision date:	-
Revision note:	-

IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and apply to the appropriate product for safety precautions. No warranty, express or implied, is made and Pima Chemicals & Fertilizers, LLC and Quimica Pima, S.A. de C.V. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

End of Safety Data Sheet