



SAFETY DATA SHEET

According to 29 CFR 1910.1200

EDTA Mn 13%

Date of issue: February 23, 2018 Revision date: - Version: -

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

1.1 Product identifier

Substance name 13% Manganese chelate EDTA
CAS No. 15375-84-5
Formula -
Synonyms Manganese disodium EDTA, ethylenediaminetetraacetic acid complex disodic manganese.

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 classified as hazardous according to the GHS

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) None

Signal word (GHS-US): None

Hazard statement (GHS-US): The mixture does not meet the criteria for classification.

Precautionary statements (GHS-US):
Observe good industrial hygiene practices.
Wash hands after handling.
Store away from incompatible materials.
Dispose of waste and residues in accordance with local authority requirements.

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
Manganese disodium EDTA	(CAS No.) 15375-84-5	90 - 100	Not applicable



SAFETY DATA SHEET

According to 29 CFR 1910.1200

EDTA Mn 13%

SECTION 4.- FIRST AID MEASURE

4.1. Description of first aid measure

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
First-aid measures after eye contact	Rinse immediately and abundantly with water for at least 10 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if the irritation spreads out.
First-aid measures after skin contact	Take off all contaminated clothing. Rinse abundantly with water and soap. Seek medical advice in case of irritation. Wash clothes before reuse.
First-aid measures after inhalation	Well ventilate the area and go to the open space.
First-aid measures after ingestion	Rinse mouth, give water to drink, induce vomiting. If the subject is unconscious, do not induce vomiting. Seek medical advice.

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

Symptoms/injuries after inhalation	Possible irritation of respiratory tract.
Symptoms/injuries after skin contact	Possible irritation according to the contact time with the product.
Symptoms/injuries after eye contact	Possible irritation according to the contact time with the product.
Symptoms/injuries after ingestion	Possible irritation of mouth and digestive tract.
Chronic symptoms	No information available.

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

If exposed, concerned or if symptoms persist, get medical attention/advice. If medical advice is needed, have product container or label at hand.

SECTION 5.- FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Water spray, foam, carbon dioxide (CO ₂)
Unsuitable extinguishing media	None known.

5.2. Special hazard arising from the substance or mixture

Fire hazard	In case of fire, avoid breathing fumes.
Explosion hazard	No information available
Hazard thermal decomposition products	May release toxic fumes containing carbon oxides (COx) and nitrogen oxides (NOx)

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.



SAFETY DATA SHEET

According to 29 CFR 1910.1200

EDTA Mn 13%

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

If possible store into a clean container either to reuse or disposal. Avoid waterway and discharging contamination; competent authority must be informed in case of accidental contamination of waterway.

6.3. Methods and material for containment and cleaning up.

Small spill

Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



SAFETY DATA SHEET

According to 29 CFR 1910.1200

EDTA Mn 13%

Incompatible products See Section 10.

Incompatible materials See Section 10.

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
Manganese disodium EDTA	-	-	-

8.2. Exposure controls

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Eye protection	If contact is likely, safety glasses with side shields are recommended.
Respiratory protection	Use dust mask with P2 filters if conditions warrant. Respect the occupational exposure limits.
Other information	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid	Appearance:	Microgranules
Odor:	Odorless	Color:	Beige
Molecular mass			No data available.
Odor threshold			No data available.
pH			No data available.
pH solution			5.0 (1% at 25°C)
Relative evaporation rate (butyl acetate=1)			No data available.
Melting point			No data available.
Freezing point			No data available.
Boiling point			No data available.
Flash point			No data available.
Self ignition temperature			No data available.
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.
Apparent density			0.85 kg/dm ³



SAFETY DATA SHEET

According to 29 CFR 1910.1200

EDTA Mn 13%

Specific gravity	No data available.
Solubility	800 g/L at 25°C
Log Pow	No data available.
Log Kow	No data available.
Viscosity, kinematic	No data available.
Viscosity, dynamic	No data available.
Explosive properties	No data available..
Oxidizing properties	No data available.
Explosive limits	No data available.

9.2 Other information

Conductivity: 0.4 (1% mS/cm 18°C)

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions of storage and handling
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions	The water solution in contact with copper and aluminium can develop hydrogen.
10.4 Conditions to avoid	Heating of the product at high temperatures.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	In case of fire may release toxic fumes containing carbon oxides (COx) and nitrogen oxides (NOx).

SECTION 11.-TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects

Inhalation: Can be irritant for nose and respiratory system.

Skin: Can be irritant for skin.

Eye: Can be irritant for eyes.

Ingestion: Can be irritant for mouth and digestive tract.

The acute oral toxicity test did not show mortality at a limit dose of 2000 mg/kg bw and the 4-h inhalation toxicity study did not show mortality at the limit concentration of 5000 mg/m³.

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ inhalation
Manganese disodium EDTA	-	-	-

Skin corrosion/irritation	No information available.
Serious eye damage/irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target toxicity (single exposure)	No information available.
Specific target toxicity (repeat exposure)	No information available.



SAFETY DATA SHEET
According to 29 CFR 1910.1200

EDTA Mn 13%

Aspiration hazard No information available.
Potential adverse human health effects and symptoms No information available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

Manganese disodium EDTA

Persistence and degradability	No data available
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12.3 Bioaccumulative potential

Manganese disodium EDTA

Bioaccumulative potential	No data available
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12.4 Mobility in soil

No data available

12.5 Other adverse effects

Other information No data available

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.

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.



SAFETY DATA SHEET
According to 29 CFR 1910.1200

EDTA Mn 13%

SECTION 15.- REGULATORY INFORMATION

US Federal regulations

TSCA 12(b)	Not regulated.
SARA 302	No
SARA 304	Not regulated.
SARA 311/312 Hazard Categories	No
CWA (Clean Water Act)	Not listed.
Clean Air Act	Not regulated.
OSHA	Not listed.
CERCLA	Not listed.
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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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