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## 1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Commercial name: **Tradecorp Mn**

Chemical name: Manganese ethylenediaminetetraacetate, disodium salt

EINECS No.: 239-407-5

CAS No.: 15375-84-5

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

Agriculture: Fertilizer

### 1.3. Details of the supplier of the supplier of the safety data sheet

TRADE CORPORATION INTERNATIONAL, S.A.U.  
c/ Alcalá, 498 – 2<sup>nd</sup> floor  
28027 – Madrid (Spain)  
Telephone: +34 91 327 32 00 Fax: +34 91 304 71 72  
e-mail: pgallego@tradecorp.sapec.pt

### 1.4. Emergency telephone number

National Institute of Toxicology: +34 91 562 04 20  
TRADECORP, S.A.U. emergency telephone: +34 91 327 32 00

## 2. SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification:

The product is not classified as dangerous according to European Directive 67/548/EEC.  
Neither the product is classified as hazardous in accordance with European Regulation (EC) No. 1272/2008.

**Environmental properties:** Not hazardous.

### 2.2. Label elements

**Hazard pictogram(s):** Not applicable

**Signal word(s):** Not applicable

**Hazard statement(s):** Not applicable

**Precautionary statement(s):** Not applicable





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### 2.3. Other hazards

Not applicable.

## 3. SECTION 3: Composition/information on ingredients

### 3.1. Identification of the substance

Name	CAS No.	EINECS No.
Manganese ethylenediaminetetraacetate, disodium salt	15375-84-5	239-407-5

## 4. SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

Keep patient at rest and maintain body temperature. Remove the victim to a ventilated area. Get medical attention. Give symptomatic and supportive treatment, if required.

**Skin contact:**

After contact with skin, remove contaminated clothing and wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

**Eye contact:**

Immediately wash affected eyes for at least 15 minutes, taking care to rinse under eyelids. Consult an eye specialist.

**Ingestion:**

Rinse mouth with water. Get medical attention and show the label or packaging. Do not induce vomiting. If vomiting occurs, keep victim's head below hips to prevent aspiration.

**Advice to physician:**

All treatments should be based on observed signs and symptoms.

## 5. SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: chemical powder, CO<sub>2</sub>, water spray or alcohol resistant foam.

Unsuitable extinguishing media: Direct water spurt (water jet).

### 5.2. Special hazards arising from the substance or mixture

In case of combustion or thermal degradation, nitrogen oxide, carbon monoxide and carbon dioxide can be generated.





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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 5.3. Advice for fire-fighters

Water spray can be used for cooling the unaffected stock, but prevent the product from contact with water.  
Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus and personal protective clothing.

## 6. SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Isolate and delimit the affected area.  
Eliminate all sources of ignition.  
Use personal protective equipment and respiratory protection.  
Avoid contact with skin and eyes.  
Evacuate personnel to safe areas.  
Ensure adequate ventilation.

### 6.2. Environmental precautions

Prevent the product reaches the sewer.  
Prevent soil contamination.

### 6.3. Methods and material for containment and cleaning up

Sweep up the spilled material avoiding dust formation. Store collected material in labelled containers for disposal in accordance with local regulations.  
Clean up residual material by washing area with water and detergent. Collect washings for disposal in accordance with local regulations.  
Do not mix with other waste materials.  
If there are spills or uncontrolled discharges on waterways (or water for public use), immediately inform the local authorities.

### 6.4. Reference to other sections

See Sections 8 and 13.

## 7. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

See also Section 8.  
Use personal protective equipment (PPE). Avoid contact with skin, eyes and clothing.  
Ensure adequate ventilation.  
Avoid dust formation. Avoid breathing dust.





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Do not handle the product near a source of ignition or near open flame.  
Do not smoke, drink or eat while handling the product.  
Wash hands with soap after handling and before eating, drinking, smoking or using the toilet.  
Remove clothing immediately if the product contacts the skin and wash skin thoroughly with mild soap.

### 7.2. Conditions for safe storage, including any incompatibilities

Do not store near or with any of the incompatible materials listed in Section 10.  
Do not store with food, drinks and feeding stuffs.  
Do not store near flame, heat sources or near strong oxidizing agents.  
Keep the product in the original container, in a dry, cool and well ventilated area, sheltered from the sun.  
Keep unauthorized personnel away.

### 7.3. Specific end use(s)

Agriculture: Fertilizer.

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure limit(s): no data available for this product.

### 8.2. Exposure controls

#### 8.2.1. Proper technical controls

See also Section 7.  
Ensure adequate ventilation.  
Use only in an area provided with appropriate ventilation.

#### 8.2.2. Individual protective measures

**Respiratory protection:** Use respiratory protective device with a particle filter.  
**Hand protection:** Use protective gloves.  
**Eye protection:** Wear safety goggles with side-shields (e.g. EN 166) or facial protection screen.  
**Skin and body protection:** Wear protective coveralls and protective boots.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

#### 8.2.3. Environmental exposure controls

Prevent entry into waterways, sewers, basements or confined areas.





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## 9. SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	Microgranule
<b>Colour:</b>	White off
<b>Odour:</b>	Odourless
<b>pH:</b>	6.5
<b>Melting point/freezing point:</b>	No data available
<b>Boiling point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flash point:</b>	Not applicable
<b>Decomposition temperature:</b>	No data available
<b>Auto-ignition temperature:</b>	Not applicable
<b>Flammability:</b>	Not applicable
<b>Explosive properties:</b>	Not applicable
<b>Oxidizing properties:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Density:</b>	0.60 g/cm <sup>3</sup>
<b>Solubility in water:</b>	600 g/L at 25 °C
<b>Partition coefficient n-octanol/water (log Pow):</b>	No data available

## 10. SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is not reactive under normal conditions.

### 10.2. Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.





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### 10.3. Possibility of hazardous reactions

Not applicable.

### 10.4. Conditions to avoid

Avoid extreme temperatures.

### 10.5. Incompatible materials

Not known.

### 10.6. Hazardous decomposition products

In case of combustion or thermal degradation, nitrogen oxide, carbon monoxide and carbon dioxide can be generated.

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity:** No data available.

**Skin corrosion/irritation:** No data available

**Serious eye damage/irritation:** No data available.

**Respiratory or skin sensitization:** No data available.

**Chronic toxicity:** No data available.

**Genotoxicity:** EDTA and its sodium salts are not mutagenic for humans.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

#### Aquatic toxicity:

LC<sub>50</sub> (fish, 96 hours): 100 mg/L  
LC<sub>50</sub> (*Daphnia*, 48 hours): 100 mg/L  
EC<sub>50</sub> (algae, 96 hours): 30 mg/L  
LC<sub>50</sub> (fish, chronic toxicity): 10 mg/L  
LC<sub>50</sub> (*Daphnia*, chronic toxicity): 10 mg/L  
EC<sub>50</sub> (algae, chronic toxicity): 9 mg/L

**Sediment toxicity:** No data available





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**Terrestrial toxicity:** No data available

#### 12.2. Persistence and degradability

The product is readily biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulation of EDTA and its metal complexes is low.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

No data available.

#### 12.6. Other adverse effects

No data available.

### 13. SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of waste materials at a licensed site.

Do not burn containers, even after use. Disable the used packaging and dispose of content and/or empty containers in accordance with local, regional, national, and/or international regulations.

### 14. SECTION 14: Transport information

#### ADR/RID:

Not classified as hazardous for transport within the transport regulations.

#### IMDG:

Not classified as hazardous for transport within the transport regulations.

#### ICAO/IATA:

Not classified as hazardous for transport within the transport regulations.





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## 15. SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Classification:

The product is not classified as dangerous according to European Directive 67/548/EEC.  
Neither the product is classified as hazardous in accordance with European Regulation (EC) No. 1272/2008.

#### Regulations:

- Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.
- Directive 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
- Directive 91/689/EEC on hazardous waste.
- European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
- European Regulation (EC) No. 1272/2008, on classification, labelling and packaging of substances and mixtures.
- Commission Regulation (EU) No. 453/2010, amending Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

Not available.

## 16. SECTION 16: Other information

#### Revision of this safety data sheet:

Revision number: 1.0  
Added, deleted or revised information: First version.

#### Legend to abbreviations:

LC<sub>50</sub>: Lethal dose 50%

EC<sub>50</sub>: Effective concentration 50%

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

IMDG: International Maritime Dangerous Goods.







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IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

**Key literature references and sources for data:**

- ESIS: European Chemical Substances Information System.
- The Pesticide Properties Database (FOOTPRINT 2007). Database developed by the University of Hertfordshire, as part of the EU-funded FOOTPRINT project (FP6-SSP-022704). <http://www.eu-footprint.org/ppdb.html>
- Institute for Health and Consumer Protection (European Commission): <http://ecb.jrc.ec.europa.eu/>
- Summary Risk Assessment Report of Edetic Acid (EDTA). European Commission, 2004.
- B. Nowack and JM. VanBriesen: Biochemistry of Chelating Agents. American Chemical Society, 2005.

**List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements:**

Precautionary statements:

**P102:** Keep out of reach of children.

**P270:** Do not eat, drink or smoke when using this product.

The content and format of this safety data sheet complies with the directives of the Commission on the CEE1999/45/CE, 67/548/EC, 1272/2008/CE rules and regulations of the Commission of the EEC 1907 / 2006/EC (REACH), and subsequent amendments.

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