

# SAFETY DATA SHEET

## MICRO PLUS MANGANESE

Page: 1 of 5

Revision: 04/03/2020

Supersedes Revision: 12/02/2019

### 1. Product and Company Identification

**Product Code:** Z-MPMN  
**Product Name:** MICRO PLUS MANGANESE  
**Trade Name:** MICRO PLUS MANGANESE  
**Company Name:** Stoller  
9090 Katy Freeway  
Suite 400  
Houston, TX 77024  
**Phone Number:**  
1 (713)461-1493

**Web site address:** www.stollerusa.com  
**Email address:** compliance@stollerusa.com

**Emergency Contact:** Chemtrec, In the US and Canada call 1 (800)424-9300  
Chemtrec, From other countries call +1 (703)527-5283

**Information:** 1 (800)539-5283

**Synonyms:** Managenese Chloride.

### 2. Hazards Identification

**Serious Eye Damage/Eye Irritation, Category 2B**

**Acute Toxicity: Skin, Category 4**

**Skin Corrosion/Irritation, Category 2**

**Acute Toxicity: Inhalation, Category 5**

**Acute Toxicity: Oral, Category 5**

**Corrosive To Metals, Category 1**



**GHS Signal Word:**

**Warning**

**GHS Hazard Phrases:**

H290 - May be corrosive to metals.  
H303 - May be harmful if swallowed.  
H312 - Harmful in contact with skin.  
H315 - Causes skin irritation.  
H320 - Causes eye irritation.  
H333 - May be harmful if inhaled.

**GHS Precautionary Phrases:**

P234 - Keep only in original container.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:**

P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 - Specific treatment see ... on this label.  
P322 - Specific measures see ... on this label.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P337+313 - If eye irritation persists, get medical advice/attention.  
P362 - Take off contaminated clothing and wash before re-use.  
P363 - Wash contaminated clothing before reuse.  
P390 - Absorb spillage to prevent material damage.

**GHS Storage and Disposal Phrases:**

P501 - Dispose of contents/container to permitted waste facility.

# SAFETY DATA SHEET

## MICRO PLUS MANGANESE

Page: 2 of 5

Revision: 04/03/2020

Supersedes Revision: 12/02/2019

<b>Inhalation:</b>	Prolonged exposure to low concentrations of vapors may cause sore throat and headache, which are temporary.
<b>Skin Contact:</b>	May be harmful in contact with skin. Prolonged or repeated skin contact may cause irritation.
<b>Eye Contact:</b>	Prolonged exposure to vapors may cause eye irritation and eye damage can occur.
<b>Ingestion:</b>	May be harmful if swallowed. May cause digestive tract disturbances.

### 3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)	Concentration	RTECS #
7773-01-5	Manganese chloride	<11.0 %	OO9625000

### 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.
<b>In Case of Inhalation:</b>	Move patient to fresh air. Supplemental oxygen may be needed. Assure mucous does not obstruct airway. Call a physician.
<b>In Case of Skin Contact:</b>	Remove product and immediately wash affected area with soap and water for 15 minutes. Do not apply greases or ointments. Launder contaminated clothing.
<b>In Case of Eye Contact:</b>	Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
<b>In Case of Ingestion:</b>	If swallowed, call a physician immediately. Remove stomach contents by gastric suction.
<b>Indication of any immediate medical attention and special treatment needed:</b>	Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
<b>Note to Physician:</b>	Treat symptomatically and supportively.

### 5. Fire Fighting Measures

<b>Flash Pt:</b>	N.A.
<b>Explosive Limits:</b>	LEL: N.E. UEL: N.E.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	In case of fire use: Carbon Dioxide, Dry Chemical, Alcohol foam.
<b>Fire Fighting Instructions:</b>	Firefighters should wear butyl rubber boots and clothing.
<b>Flammable Properties and Hazards:</b>	No data available.
<b>Hazardous Combustion Products:</b>	No data available.

### 6. Accidental Release Measures

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	It is necessary to contain the spill into the smallest area possible by diking, etc. Replace liquid into plastic container. If liquid is absorbed onto dry carrier such as soil or absorbent material, then this material should be held in dry contained area.
---	---

### 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Wear appropriate protective equipment. Personal protective equipment must be worn: chemical resistant gloves and boots, goggles or full face-shield and coveralls or long sleeved shirt and pants.
<b>Precautions To Be Taken in Storing:</b>	Keep containers closed and away from oxidizing agents. Store only in shipping container: Pails (PVC), Drums (Polyethylene) and Mini Bulk tanks (Polyethylene). Bulk material should be stored in Polyethylene Tanks with PVC fittings.

# SAFETY DATA SHEET

## MICRO PLUS MANGANESE

### 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7773-01-5	Manganese chloride	CEIL: 5 mg/m <sup>3</sup>	TLV: 0.2 mg/m <sup>3</sup> as Mn	No data.

**Respiratory Equipment (Specify Type):** As required by conditions. Use a NIOSH/OSHA approved respirator if required.

**Eye Protection:** Use splash proof eye goggles.

**Protective Gloves:** Use butyl rubber gloves.

**Other Protective Clothing:** Wear clothing that covers the exposed skin area as much as possible.

**Engineering Controls (Ventilation etc.):** Work outdoors in the open or well ventilated area with this product. Eye wash should be available.

**Work/Hygienic/Maintenance Practices:** Wash thoroughly after handling. Also wash clothing.

### 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Pale pink color. No odor.

**pH:** < 2.0

**Melting Point:** N.A.

**Boiling Point:** N.E.

**Flash Pt:** N.A.

**Evaporation Rate:** No data.

**Flammability (solid, gas):** Not flammable or combustible.

**Explosive Limits:** LEL: N.E. UEL: N.E.

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Specific Gravity (Water = 1):** 1.15 - 1.19

**Density:** ~ 9.8 LB/GA

**Solubility in Water:** No data.

**Octanol/Water Partition Coefficient:** No data.

**Autoignition Pt:** No data.

**Decomposition Temperature:** No data.

**Viscosity:** No data.

### 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** N.A.

**Incompatibility - Materials To Avoid:** Oxidizing agents (perchlorates, nitrates, nitrites, etc.) and high concentrations of mineral acids.

**Hazardous Decomposition or Byproducts:** Carbon monoxide, Nitrogen Oxide, Carbon Dioxide and Chloride fumes as well as Ammonia and Hydrogen Cyanide under extreme heat as in a fire.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

# SAFETY DATA SHEET

## MICRO PLUS MANGANESE

### 11. Toxicological Information

**Toxicological Information:** No data available.

CAS #	Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7773-01-5	Manganese chloride	n.a.	n.a.	n.a.	n.a.

### 12. Ecological Information

**General Ecological Information:** The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. Any waste due to spillage or leakage should be contained and disposed of as a Fertilizer (see Section 6 "Accidental Release Measures). If discharged into the marine environment it may be toxic to fish or other marine organisms, and due to its nutrient value may contribute to eutrophication in bodies of water.

### 13. Disposal Considerations

**Waste Disposal Method:** Dispose of in compliance with all federal, state and local laws concerning health and environment.

### 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Corrosive liquid, N.O.S. (Contains Manganese Chloride)  
**DOT Hazard Class:** 8 CORROSIVE  
**UN/NA Number:** 1760 **Packing Group:** II



**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Corrosive liquid, N.O.S. (Contains Manganese Chloride)  
**UN Number:** 1760 **Packing Group:** II  
**Hazard Class:** 8 - CORROSIVE

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Corrosive liquid, N.O.S. (Contains Manganese Chloride)  
**UN Number:** 1760 **Packing Group:** II  
**Hazard Class:** 8 - CORROSIVE

**Additional Transport Information:** Placards / Markings: N/A

### 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7773-01-5	Manganese chloride	No	No	Yes-Cat. N450

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explosive	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flammable (gases, aerosols, liquid, or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specific target organ toxicity (single or repeated exposure)
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Aspiration Hazard

# SAFETY DATA SHEET

## MICRO PLUS MANGANESE

Revision: 04/03/2020  
Supersedes Revision: 12/02/2019

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Simple Asphyxiant
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No In contact with water emits flammable gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Combustible Dust	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Physical) Hazard Not Otherwise Classified (HNOC)	

CAS #	Components (Chemical Name)	Other US EPA or State Lists
7773-01-5	Manganese chloride	CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Yes - Cat., Yes - Cat.

CAS #	Components (Chemical Name)	International Regulatory Lists
7773-01-5	Manganese chloride	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: No; REACH: Yes - 01-2119934899-15: Full, (P)

**Regulatory Information:** TSCA Inventory: In compliance with inventory requirements for commercial purposes.

**Regulatory Information Statement:** If this product contains components designated as CERCLA Reportable Quantity (RQ) Substance, Section 103 of CERCLA requires the "person in charge" of a facility or vessel, as soon as he or she has knowledge of a release of a hazardous substance in an amount equal to or greater than an RQ, to report the release immediately to the National Response Center in Washington, DC. The NRC number is 1 (800) 424-8802 or 1 (202) 267-2675.

### 16. Other Information

**Revision Date:** 04/03/2020

**Hazard Rating System:**

The diagram is a diamond-shaped hazard rating system. The top-left corner is a blue triangle containing the number '1', labeled 'Health'. The top-right corner is a red triangle containing the number '0', labeled 'Flammability'. The bottom-right corner is a yellow triangle containing the number '0', labeled 'Instability'. The bottom-left corner is a white triangle containing the number '0', labeled 'Special Hazard'. Below the diamond, the text 'NFPA:' is written.

**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:** Stoller believes the information contained in this Safety Data Sheet is accurate based on the information provided by reputable suppliers of our raw materials. However, Stoller does not guarantee their accuracy or completeness. The information contained herein is furnished without warranty of any kind, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for any particular purpose. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Stoller assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of goods and data.