



SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200.

Section 1: Chemical Product and Company Identification

DISTRIBUTED BY:
HydroGro, LLC
7815 S Hardy Dr Bldg 3 Ste 101
Tempe, AZ 85284

Safety Data Sheet Competent Person: Customer Service

EMERGENCY TELEPHONE
Chemtrec U.S.-Canada: 800-424-9300
Chemtrec International: 703-527-3887
Information: (480) 248-9336
Fax: (480) 248-9337
Sales@hydrogro.com

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PRODUCT NAME: **HG Mikro-MAN 13%**
FORMULA: Preparation/Mixture
PRODUCT USE: Supplement micronutrient for Agricultural/Horticultural use.

Section 2: Hazards Identification

GHS Hazard Class: Not classified.
Label Elements: No labelling applicable. Hazard warning label not required according to GHS criteria.
Health Hazard: Not classified.
Transportation Classification Not classified as hazardous based on IATA, IMDG, and DOT.
Appearance: Light pink powder

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.
Non-hazardous ingredients	<1	
Manganese disodium EDTA (C ₁₀ H ₁₂ N ₂ O ₈ MnNa ₂)	>90-99	15375-84-5

*Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

Description of First Aid Measures

General Information Contact with eyes or skin may cause irritation. Undiluted material will be irritating on direct contact with eyes. Clothing should be thoroughly washed before re-use.

Inhalation Remove to fresh air. Get immediate medical attention if breathing becomes difficult.



Skin Contact

Immediately wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Get medical attention if irritation develops or persists.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing. Get immediate medical attention if irritation persists.

Ingestion

Rinse mouth. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything to an unconscious person. Get medical attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

Potential adverse human health effects and symptoms:

No significant reaction of the human body to the product known.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

Section 5: Fire-fighting Measures

Suitable extinguishing media

Use foam, dry chemical, carbon dioxide, or any media suitable to extinguish the surrounding fire.

Special hazards arising from the substance or mixture

The product is non-reactive under normal conditions of use, storage, and transport.

Protective actions fire-fighters

Wear standard protective equipment and self-contained breathing apparatus for firefighting if necessary.

Further information

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Do not allow fire protection water to enter sewer or discharge to open water.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing fumes. Ensure adequate ventilation. Avoid contact with eyes or skin.

Environmental precautions

Prevent further spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

Methods and materials for containment and clean-up

In case of small spills, absorb with sand or other non-combustible absorbent material and put spilled material in a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

In case of large spills, dike far ahead of liquid spills. Absorb with inert material and put into a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

Reference to other Sections

For personal protection reference section 8. For disposal reference section 13.

Section 7: Handling and Storage

Precautions for safe handling

Safety showers and eye wash stations should be provided within the immediate work area for emergency use.

Use only with adequate ventilation.

Do not inhale dust.

Keep out of reach of children.

Wear proper protective equipment when handling this material.

Avoid contact with skin, eyes, or clothing.

Wash hands and face after handling this material.

A plastic container should be used for disposal.

For precautions see section 2.

**Conditions for safe storage, including any incompatibilities**

Store upright in a cool, dry place.
Keep container closed when not in use.
Keep away from heat, sparks, flame, direct sunlight, and other possible sources of ignition.
Utilize chemical segregation.
Follow all applicable local regulations for handling and storage.

Specific uses

This product is intended to be used as a supplement for professionally maintained golf courses, sport turf, landscaping, horticulture, and agriculture.

Section 8: Exposure Controls/Personal Protection

Control Parameters

This product contains no substances with occupational exposure limit value.

Exposure controls**VENTILATION:**

Always provide good general, mechanical room ventilation where this chemical/material is used.

SPECIAL VENTILATION CONTROLS:

None.

EXPOSURE CONTROLS

Avoid uncontrolled release to the environment.

RESPIRATORY PROTECTION:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

PROTECTIVE GLOVES:

Chemical resistant gloves are recommended.

EYE PROTECTION:

Recommend eye protection using safety glasses, goggles, or face shield (8" minimum).

SKIN PROTECTION:

Suitable protective clothing to prevent skin contact.

WORK/HYGIENE PRACTICES:

Avoid breathing dust. Avoid contact with eyes. Wash hands after handling.

OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Light pink powder
PHYSICAL STATE:	Solid
ODOR:	Product specific
ODOR THRESHOLD	No data available
PH	6.0-7.0 10g/l @25°C
MELTING POINT/FREEZING POINT:	Decomposes without melting
INITIAL BOILING POINT AND BOILING RANGE:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	Not flammable
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	0.1 Pa (@120.8°C)
VAPOR DENSITY (AIR = 1)	No data available
RELATIVE DENSITY (@25°C):	0.55 g/m ³
SOLUBILITY(IES)	Soluble in water 20°C
OXIDIZING PROPERTIES	No data available
PARTITION COEFFICIENT: n-octanol/water	No data available
AUTO IGNITION TEMPERATURE	264°C
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available



Section 10: Stability and Reactivity

Reactivity:	Not reactive under normal conditions of use, storage, and transport.
Chemical Stability:	Stable under recommended conditions.
Possibility of Hazardous Reactions:	Will not occur under normal temperatures and pressures.
Conditions to Avoid:	Avoid generating dust. Protect from moisture/humidity.
Incompatibility (Materials to avoid):	Oxidizing agents, aluminum.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire, toxic fumes may be released. Thermal decomposition may produce Nitrous gas.

Section 11: Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50-Rat (Oral) >2000 mg/kg			MnEDTA (15375-84-5)
Skin Corrosion/Irritation	Not classified			
Serious Eye Damage / Eye Irritation	Not classified			
Respiratory or Skin Sensitization	Not classified			
Germ Cell Mutagenicity	Not classified			
Carcinogenicity	NTP	Not listed		
	IARC	Not listed		
	OSHA	Not listed		
Reproductive Toxicity	Not classified			
STOT -- Single Exposure	Not classified. Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.			MnEDTA (15375-84-5)
STOT -- Repeated Exposure	Not classified. Adverse effects observed (NOAEL, Rat: 500 mg/kg bw/day, sub-chronic)			MnEDTA (15375-84-5)
Aspiration Hazard	Data not available			

STOT = Specific Target Organ Toxicity

Section 12: Ecological Information

		Chemical Constituent
Toxicity:	Not considered harmful to aquatic organisms or to cause long-term adverse effects to the environment.	EDDHA Fe (84539-55-9)
Persistence and degradability:	No information is available.	
Bioaccumulative potential	Low bioaccumulative potential.	EDDHA Fe (84539-55-9)
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

Section 13: Disposal Considerations

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

Section 14: Transport Information



DOT TRANSPORT: Not Regulated

ADR = International Carriage of Dangerous Goods by Road: Not Regulated

RAIL TRANSPORT: Not Regulated

SEA TRANSPORT: IMDG Not Regulated

AIR TRANSPORT: IATA/ICAO Not Regulated

Section 15: Regulatory Information

TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:

This product is in compliance with the rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Massachusetts's hazardous substance(s):	None
Pennsylvania	None
New Jersey	None

Section 16: Other Information

Initial issue date:	August 16, 2024
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Revision Number:	0
Revision explanation	Initial version.
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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