

# SAFETY DATA SHEET

1. IDENTIFICATION

Trade Name: MicroLink Manganese
Chemical Name: Liquid Fertilizer Solution
Manufacturer: C.O.G. Marketers, LTD.

Address: 3055 W. M-21

St. Johns, MI 48879

Product Informaton: 800 678-9029 Revision Date: February 25, 2020

**24 Hour Emergency:** ChemTel Inc. 800-255-3924

2. HAZARDS IDENTIFICATION

**GHS – Classification:** Signal Word: Warning **GHS – Classification:** Pictogram: GHS07

**Health:** Inhalation: H335 If misty condition prevails, may irritate.

<u>Ingestion</u>: H303 Low oral toxicity.

<u>Skin</u>: H317 Low skin irritation potential. (pH 6.8 to 7.2) <u>Eyes</u>: H320 Low eye irritation potential. (pH 6.8 to 7.2)

**Precautionary Statements:** 

P261 Avoid breathing mists or vapors.

P262 Do not get in eyes, on skin or on clothing.
P264 Wash hands thoroughly after handling.

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

P280 Wear protective gloves, protective clothing and eye protection.

If breathing is difficult, remove victim to fresh air and keep at

P341 rest in a position comfortable for breathing.

If swallowed: call a POISON CENTER or doctor/physician if you

P301+P312 feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

P305+P351+P338 rinsing.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Element** % Guarantee Manganese (Mn) 4%

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## 4. FIRST AID MEASURES

Flush eyes immediately and thoroughly with water for at least 15 minutes. If irritation

**Eye Contact:** persists, get medical attention.

Flush skin immediately and thoroughly with water. If irritation persists, get medical

**Skin Contact:** attention

**Inhalation:** Generally not considered an inhalation hazard.

**Ingestion:** If conscious, immediately give large quantities of water. Consult a physician.

## **5. FIRE-FIGHTING MEASURES**

**Unusual fire and explosion hazards:** When heated, it may give off ammonia fumes (this material is a

fire retardant).

**Fire extinguishing agents recommended:** All standard agents are acceptable.

**Special fire-fighting precautions:** Due to possible evolution of ammonia, wear self-contained

breathing apparatus approved by NIOSH. Use water spray to

keep containers cool.

NFPA HAZARD RATING: 0 Least

1 Slight 1 Health

0 Flammability

2 Moderate 3 High

4 Severe

0 Reactivity



### **6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment.

Soak up with inert absorbent material. A vacuum truck may also be used. Keep in a

**Cleanup:** suitable closed container for disposal.

### 7. HANDLING AND STORAGE

Avoid breathing mist, if any should be formed. Minimize contact of liquid with eye,

**Normal Handling:** skin, and clothing. Use good personal hygiene and housekeeping.

Avoid using containers, pipes and fittings made of aluminum, mild steel, zinc-clad or,

**Storage:** copper bearing alloys.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Unless heated to evolve ammonia or misted by heat, agitation, or spraying, natural

**Ventilation:** ventilation should be adequate.

Contain spills and maximize recovery. Cleanup promptly into a container. (Caution

should be exercised in the area of spilled material since it can cause a slippery

Spill or Leak: condition.)

**Respiratory Protection:** Respirators are not required under normal ventilated conditions.

**Eyes and Face:** Safety glasses are recommended.

Rubber coated gloves and clothing which minimize skin exposure are recommended if

**Hands, Arms, & Body:** there is prolonged or repeated exposure of skin to liquid.

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9. PHYSICAL DATA

**Lower Flammability Limit:** NA Flashpoint: NA NA **Autoignition Temperature:** NA **Upper Flammability Limit: Boiling Point:** NA **Specific Gravity:** 1.246

**Melting Point:** NA Weight: 10.40 lbs/gal

20°F **Freezing Point:** 

% Volatile: NA **Vapor Pressure:** NA **Evaporation Rate (Water=1)** Vapor Density (Air=1) NA NA % Solubility in Water: 100 Viscosity: NA **Pour Point:** NA **Octanol/Water Partition Coefficient:** NA

Molecular Formula: 6.8 to 7.2 NA pH:

**Salt-Out Point: Molecular Weight:** NA NA

Odor/Appearance: Light Orange Liquid

## **10. STABILITY AND REACTIVITY**

Stability: Stable.

Conditions to avoid: Avoid extreme temperature changes.

**Incompatibilities:** Avoid mixing with products containing boron, calcium, magnesium, and large amounts

of ammonium sulfate as these will form crystalline fallout after a short period of time.

Always perform a jar test to determine compatibility.

### 11. TOXICOLOGICAL INFORMATION

**Routes of Exposure:** Eye Contact. Ingestion. Inhalation.

**Toxicity Data:** Not determined.

Carcinogenic Effects: Not determined. **Chronic Toxic Effects:** 

> Mutagenic Effects: Not determined. Teratogenic Effects: Not determined. **Developmental Effects:** Not determined.

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate existing medical conditions.

**Acute Toxic Effects:** Not determined.

## 12. ECOLOGICAL INFORMATION

Not determined. **Ecotoxicity:** 

Other Ecotoxicological Advice: No ecological data available.

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal of Material: Dispose of in accordance to national, state, and local regulations.

# **14. TRANSPORT INFORMATION**

DOT: Not regulated. IATA: Not regulated. IMDG: Not regulated.

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### 15. REGULATORY INFORMATION

Canada: <u>WMIS Hazard Class:</u> Not determined.

<u>DSL</u>: All components either exempt or listed on DSL.

United States: SARA 313: Not applicable.

SARA 311/312: Not applicable.

<u>TSCA</u>: All components either exempt or listed on TSCA inventory.

OSHA: Classified as not hazardous under OSHA regulations.

Mexico – Grade: No information available.

This product does not contain any component(s) listed under the CWC

International Regulations: CWC: Schedule of Chemicals.

### **16. OTHER INFORMATION**

Legend: DOT: Department of Transportation (US)

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code WHMIS: Workplace Hazardous Material Information System

**DSL: Domestic Substances List** 

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

OSHA: Occupational Safety and Health Administration

AICS: Inventory of Chemical Substances CWC: Chemical Weapons Convention

Disclaimer:

The information provided on this Safety Data Sheet is correct to the best of our knowledge,

information, and belief at the date of its publication. The given information is to be used only as a guide for safe handling, use, storage, transportation, and disposal and is not to be considered as a warranty or quality specification. The information relates only to the specified material designated and may not be valid for such material used in combination with any other material

or in any process, unless specified in the text.

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