

3055 W. M-21 \*P.O. Box 150 St. Johns, MI 48879 (989) 224-4117 Toll Free 1-800-678-9029 Administration Fax (989) 224-3940 Distribution Fax (989) 227-0493

# AGRO-CULTURE LIQUID FERTILIZERS

MATERIAL SAFETY DATA SHEET

### **A. GENERAL INFORMATION**

Trade name: Manganese

Chemical Name: 4% MN-Manganese

Address: C.O.G. Marketers, LTD.

3055 W. M-21

St. Johns, MI 48879

**Contact:** Production Manager

Phone: (989) 224-4117 or 1-800-678-9029

After Business Hours - (989) 224-2562

Revised Date: January 1, 2009

# **B. FIRST AID**

Eye Contact: Flush eyes immediately and thoroughly with water for at least 15 minutes. If

irritation persists, get medical attention.

Skin Contact: Flush skin immediately and thoroughly with water. If irritation persists, get

medical attention.

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

Ingestion: If conscious, immediately give large quantities of water and induce vomiting.

Consult a physician.

#### C. HAZARDS INFORMATION - HEALTH

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

Ingestion: Large doses of ammonium salts may give diarrhea or diuresis. Low oral

toxicity.

**Skin:** Low skin irritation potential. (pH 7.0 to 7.2) **Eyes:** Low eye irritation potential. (pH 7.0 to 7.2)

NB 807250 NRG

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### D. PRECAUTIONS-PROCEDURES

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.

Ventilation: Unless heated to evolve ammonia or misted by heat, agitation, or

spraying, natural ventilation should be adequate.

Normal Handling: Avoid breathing mist, if any should be formed. Minimize contact of liquid

with eye, skin, and clothing. Use good personal hygiene and housekeeping.

Storage: Avoid using containers, pipes and fittings made of aluminum, mild steel,

zinc-clad or copper bearing alloys.

Spill or Leak: Contain spills and maximize recovery. Mop up or pump up promptly into

metal or plastic drum. (Caution should be exercised in the area of spilled

material since Manganese can cause a slippery condition.)

### **E. PERSONAL PROTECTIVE EQUIPMENT**

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

Eyes and Face: Safety glasses are recommended.

Hands, Arms, & Body: Rubber coated gloves and clothing which minimize skin exposure are

recommended if there is prolonged or repeated exposure of skin to

liquid.

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## F. PHYSICAL DATA

Material is: Liquid (at normal conditions.)

Appearance & Odor: Light odorless liquid.

Specific Gravity: 1.250

**pH**: 7.0 - 7.2

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#### G. ENVIRONMENTAL

EPA Hazardous substance: NO