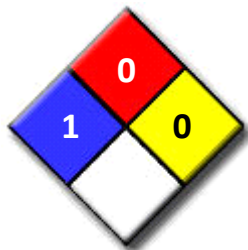




534 CR 529A  
Lake Panasoffkee, FL 33538  
800-476-6674 352-793-1682  
agri@uas-cropmaster.com  
www.uas-cropmaster.com

## Safety Data Sheet (OSHA 29 CFR 1910.1200)



### Section 1 - Product and Company Identification

**Product** MN 6% Mix

**Company** UAS of America  
534 CR 529A  
Lake Panasoffkee, FL 33538

**Phone** 800-476-6674

**Emergency Phone** 352-793-1682

**Product Use** Chelated Manganese Fertilizer

### Section 2 - Composition and Information on Ingredients

Component Ingredients	Hazardous	Percent	CAS Number	Threshold Limit Values			
				OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
Manganese Sulfate Monohydrate	No	6.00 %	10034-96-5	-NONE ESTABLISHED-			
Alpha-Ketoglutaric Acid	No	0.02 %	328-50-7	-NONE ESTABLISHED-			

### Section 3 - Hazard Identification

#### Potential Health Effects

This material is not a "health hazard" or "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration Hazard Communication Standard, 20 CFR 1910.1200

## Section 4 - First Aid Measures

Skin Contact       Skin Absorption       Eye Contact       Inhalation       Ingestion

**Skin Contact** Dry and/or red itchy skin - Flush with water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation persists.

**Skin Absorption** Dry and/or red itchy skin - Flush with water for 15 minutes. Get medical attention if irritation persists.

**Eye Contact** Eye irritation - Flush with water for 15 minutes. Get medical attention if irritation persists.

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

**Ingestion** Do not induce vomiting, contact a physician or poison control center.

## Section 5 - Fire Fighting Measures

Flammable

**Flammable Conditions** None

**Methods of Extinguishing** Use media suitable to extinguish source of fire. Water fog or spray, foam, carbon dioxide, or dry chemical.

**Flashpoint degrees (c)** N/A

**Flashpoint Method** N/A

**Autolgnition Temp (c)** N/A

**Upper Flammable Limit (% by volume)** N/A

**Lower Flammable Limit (% by volume)** N/A

**Explosion - Sensitivity to Impact**

N/A

**Explosion - Sensitivity to Static Discharge**

N/A

**Protection and Procedures for FireFighters**

Use water fog or spray, foam, carbon dioxide, or dry chemical to control fire.

**Protective Equipment for Firefighters**

Use approved self-contained breathing apparatus and full protective gear. Avoid smoke inhalation.

## Section 6 - Accidental Release Measures

**Leak and Spill Procedures**

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams, and rivers. Material Released or Spilled: Promptly mop up or pump up material and place in suitable container for use as a fertilizer or for proper disposal in accordance with local, state and federal regulations.

## Section 7 - Handling and Storage

### Handling Procedures and Equipment

Avoid contact with eyes. Use only in well ventilated areas. Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin. Keep Out Of Reach Of Children. Other Precautions: Transfer using chemical-resistant plastic or stainless steel tanks, pumps, and valves.

### Storage Requirements

Store in cool, dry area. Keep container closed when not in use. Keep Out Of Reach Of Children. Store in temperatures between 40 and 78 degrees F.

## Section 8 - Exposure Controls - Personal Protection

### Specific Engineering Controls

Adequate ventilation required to maintain a fresh airflow.

Gloves       Respirator       Eye       Footwear       Clothing       Other

### Personal Protective Equipment

Respiratory Protection: If mist or dust conditions should be present use respirator approved by NIOSH. Eye Protection: Goggles or face shield. Skin Protection: Adequate clothing should be worn to prevent skin contact. Other Protective Clothing or Equipment: Eye bath, safety shower. Work Hygienic Practices: Wash all clothing before wearing. Wash all exposed skin surfaces with soap and water after using this product.

## Section 9 - Physical and Chemical Properties

Physical State	Liquid
Odor and Appearance	Amber Liquid, Sweet Odor
Solubility in Water	Complete
Specific Gravity	1.23
Vapor Density (air = 1)	N/A
Vapor Pressure (mmHg)	N/A
Evaporation Rate	N/A
Boiling Point (° C)	212 F (F) 100 C (C)
Freezing Point (°C)	32 F (F) 0 C (C)
pH @ 20 Celcius	5.8
Coefficient of Water/Oil Distribution	N/A
Notes	10.29 lbs/gal

## Section 10 - Stability and Reactivity

### Chemical Stability

#### Stability Conditions

Product is stable.

### Incompatibility with Other Substance

#### Incompatibility conditions

N/A

#### Reactivity Conditions

Extremely high temperatures.

#### Hazardous Decomposition Products

Burning may result in carbon monoxide fumes

## Section 11 - Toxicological Information

### Effects of Acute Exposure

Eye contact may cause irritation and redness.

### Effects of Chronic Exposure

Prolonged contact with skin may cause irritation or dermatitis in sensitive individuals.

**Irritancy** Slight

**Skin Sensitization** Redness

**Carcinogenicity - IARC** No

**Reproductive** No

**Embrototoxicity** No

**Respiratory Sensitize** Mild

**Carcinogenicity - ACGIH** No

**Teratogenicity** No

**Mutagenicity** No

## Section 12 - Ecological Information

### Ecological Information

Not Known

## Section 13 - Disposal Considerations

### Waste Disposal

If product cannot be disposed of according to use directions on label. Dispose of in accordance with federal, state, and local environmental laws and regulations.

## Section 14 - Transportation Information

**U.S. DOT** Not Regulated

**IMDG** Not Regulated

**ICAO/IATA** Not Regulated

### Transport Information

Other Shipping Description: Fertilizing Compounds (Manufactured), Liquid. NMFC Item 6810 Sub 6, LTL Class 70

## Section 15 - Regulatory Information

**Health Hazard** 1 Exposure could cause irritation but only minor residual injury even if no treatment is given.

**Fire Hazard** 0 Materials that will not burn.

**Instability** 0 Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

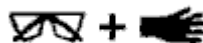
**Special Hazard**

## Section 16 - Other Information / Warranty / Disclaimer

Revised 13-Nov-13

Prepared By Denise

Health	3
Flammability	0
Reactivity	0
Personal Protection	B



**Health Hazard** 3 Major injury likely unless prompt action is taken and medical treatment is given

**Flammability** 0 Materials that will not burn

**Reactivity** 0 Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

**Personal Protection** B Safety Glasses + Gloves

### Disclaimer

HMIS Ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS ratings are not required on MSDS's by OSHA's CFR 1910.1200, we choose to provide them as a service to our customers using HMIS. These ratings are to be used only with a fully implemented HMIS program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS Implementation Manual.

When two ratings are provided for Health, the first represents the material 'as supplied,' and the second represents the material 'in use.'

### Other Information

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