Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

Trade Name: Liquid Chelated Micro Mix
Registration No: None

M77170

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company
P.O. Box 27
Boise, ID 83707
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: Liquid Chelated Micro Mix
Common Name: Micro Mix
Chemical Type: Liquid Micronutrient

SECTION 2 COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
			Hazardous		
None listed					
			Non-Hazardous		
Blend of non-hazardous ingredients:			100%		
Diammonium Salt of Zinc Ethylene-Diaminetetraacetic acid					
Water	7732-18-5	H_2O			
Dipotassium Salt of Manganese ethylenediaminetetraacedit acid	60815-77-0				
Water	7732-18-5	H_2O			
Copper Ethylenediaminetetraacetate (EDTA)					
Water	7732-18-5	H_2O			
Sodium salt of iron hydroxyethylethylenediamine-triacetic acid	16485-47-5				
Disodium hydroxyethylethylenediaminediacetate	62099-15-4				
Sodium Nitrate	7631-99-4	$NHO_3.Na$			
Ammonium Nitrate	6484-52-2	NH_4NO_3			
Sodium Glycolate	2836-32-0	$C_2H_4O_3.Na$			
Water	7732-18-5	H_2O			

SECTION 3 HAZARDS IDENTIFICATION

Ingestion: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing larger amounts may cause injury.
Inhalation: Considered to be low in hazard from inhalation.
Eye Contact: May cause pain and slight discomfort. Corneal injury is unlikely.
Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.
Skin Contact: Prolonged or repeated exposure may cause skin discomfort. May cause more severe response if skin is scratched or cut.
Effects of Overdose: Excessive exposure may cause methomoglobinemia, thereby impairing the blood's ability to transport oxygen. Signs and symptoms of excessive exposure may include headache, lethargy, confusion, slow and weak pulse.

SECTION 4 FIRST AID MEASURES

Ingestion: If large amount is ingested, give 2-3 glasses of water and induce vomiting. Seek medical attention.
Inhalation: Remove to fresh air. Seek medical attention if condition persists.
Eyes: Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.
Skin: Wash with soap and water. Seek medical attention if condition persists.
Notes to Physician: Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Use media suitable to extinguish source of fire.
Special Fire Fighting Procedures: Product is not combustible.
Unusual Fire and Explosion Hazards: None listed

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams and rivers.
Steps to be taken in case material is released or spilled:
Soak up with absorbent material and scoop into drums. Wash away any residue with soap and water. Avoid wash water entering natural waterways or public water supplies.

SECTION 7 HANDLING AND STORAGE

Precautions to be taken in handling and storing:

Practice reasonable care and caution. Avoid breathing mists if generated. Do not contaminate water, food or feed by storage or disposal. Use normal safety procedures and good personal hygiene. Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: No respiratory protection should be needed.
Protective Clothing: Normal clean work clothing.
Eye Protection: Use safety glasses.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not available
Density: Not available
Flashpoint: Non-flammable
pH: Not listed
Appearance: Reddish-brown liquid.
Extinguishing Media: Use media suitable to extinguish source of fire.

Solubility in Water: Completely miscible
% Volatiles (by volume): Not applicable
Vapor Pressure, mm Hg: Not applicable
Reaction with Water: None

SECTION 10 STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Extremely high temperatures. Avoid evaporation to dryness.
Incompatibility (Material to Avoid): Contact with carbon steel produces hydrogen.
Hazardous Decomposition Products: Nitrogen dioxide may evolve upon boiling. Ammonia and nitrogen oxides under fire conditions.
Hazardous Polymerization: Will not occur
Conditions to Avoid: Not applicable

SECTION 11 TOXICOLOGY INFORMATION

None listed.

SECTION 12 ECOLOGICAL INFORMATION

None listed.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Do not dump into any sewers, on the ground or into any body of water. Dispose of unused or contaminated product in accordance with local, state and federal guidelines.

SECTION 14 TRANSPORT INFORMATION

Shipping name: Not regulated by DOT
Hazard Class: None
Reportable Quantity (RQ): None
Labels Required: None
Placard: None

C.A.S. Number: See "Ingredients"
D.O.T. Number: None
Haz Waste No: None
EPA Regist No: None

SECTION 15 REGULATORY INFORMATION

Carcinogenicity:
by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X)

This product contains manganese (1.5%) CAS No. 7439-96-58 and copper (1.9%) CAS No. 7440-50-8 which are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 16 OTHER INFORMATION

Flash Point (Test Method): Non-flammable
Autoignition Temperature: Not applicable

Flammable Limits (% BY VOLUME)	**LOWER**	**UPPER**
	N/A	N/A

MSDS Version Number: 4(revision to Section 2)

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Reviewed by: The Environmental Health & Safety Department
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