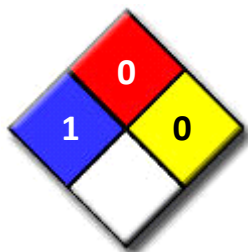




534 CR 529A
Lake Panasoffkee, FL 33538
800-476-6674 352-793-1682
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Safety Data Sheet (OSHA 29 CFR 1910.1200)



Section 1 - Product and Company Identification

Product MZFE Mix

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

Phone 800-476-6674

Emergency Phone 352-793-1682

Product Use Micronutrient Fertilizer

Section 2 - Composition and Information on Ingredients

Component Ingredients	Hazardous	Percent	CAS Number	Threshold Limit Values			
				OSHA		ACGIH	
				PEL	STEL	TLV	STEL
Ferrous Sulfate Heptahydrate	No	4.00%	7782-63-0	-NONE ESTABLISHED-			
Manganese Sulfate Monohydrate	No	2.00%	10034-96-5	-NONE ESTABLISHED-			
Zinc Sulfate Monohydrate	No	2.00%	7733-02-2	-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	Dark Brown Liquid, Sweet Odor
Solubility in Water	Complete
Specific Gravity	1.3
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	4.0
Coefficient of Water/Oil Distribution	N/A
Notes	10.76 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

Embotoxicity 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.

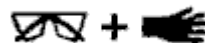
Special Hazard

Section 16 - Other Information / Warranty / Disclaimer

Revised 01-Nov-13

Prepared By Denise

Health	1
Flammability	0
Reactivity	0
Personal Protection	B



Health Hazard 1 Irritation or minor reversible injury possible

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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