

Section 1: Identification

Product Name: INTEGRITY Z-422 Soluble Micronutrients

Manufacturer: Fusion 360, Inc.

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Primary Use: Agricultural Nutrient

A specifically formulated manganese supplement for foliar and/or drip applications to trees & vines, vegetable & field crops, turf & greenhouse plants and various ornamental plant

Section 2: Hazard Identification

Classification of the mixture:

2	Health
0	Flammability
0	Reactivity
C	PPE

Route of Entry: Ingestions, Skin Contact, Inhalation
Physical Hazards: none known
Health Hazards: May cause temporary irritation.
Target Organs: Eyes, Skin, Lungs

- Irritant (skin and eye)
- Skin Sensitizer
- Respiratory Tract Irritant



WARNING! CAUSES BURNS TO EYES AND SKIN. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID DIRECTLY BREATHING VAPORS OR MIST. WASH THOROUGHLY AFTER HANDLING. USE ADEQUATE VENTILATION.

Section 3: Composition Information on Ingredients

Common Name and Synonym: Integrity Z-422 Soluble Micronutrients

Inert Ingredients.....90.5%

Zinc (Zn).....4.0%

Iron (Fe).....2.0%

Manganese (Mn).....2.0%

Nitrate Nitrogen.....1.5%

Section 4: First Aid Measures

Routes of Entry: If in mist form / Possible local irritation / Slight hazard

Eyes- Flush with water for 15 minutes. Skin- Wash thoroughly with soap and water after handling. Inhalation- Remove to fresh air. Oral- Get medical care.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. If swallowed, do not induce vomiting. Give large quantities of water. Call a physician immediately. Never give anything by mouth to an unconscious person. In case of contact, immediately flush skin and eyes with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

Section 5: Firefighting Measures

Flash Point: N/A - Aqueous Solution

Flammable Limits: LEL- N/A UEL- N/A

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO₂

Special Fire Fighting Procedures: None

Personal Protective Equipment: Standard

Unusual Fire and Explosion Hazards: N/A

Hazardous Decomposition Materials (Under Fire Conditions): N/A

Section 6: Accidental Release Measures

Small spills should be picked up with paper towels or a mop. Large spills should be wet vacuumed or siphoned into suitable containers for disposal or reclamation.

Waste Disposal: Check with applicable local, state and federal laws and regulations.

Section 7: Handling and Storage

Corrosive liquid. Persons handling product should use proper protective equipment and handle with care. Containers should be stored in a cool dry area to minimize product expansion and possible leakage.

Section 8: Exposure Controls / Personal Protection

Respirator Protection: Recommended **Ventilation:** Natural ventilation is usually adequate. **Protective Gloves:** Rubber or plastic.

Eye Protection: Chemical goggles. **Other Protective Clothing or Equipment:** Eye bath, shower, oxygen mask should be available.

Work Hygienic Practices: Wash hands and clothing after handling product. Recommend wearing long sleeves to prevent skin irritation due to contact.

Section 9: Physical and Chemical Properties

Appearance: Reddish / Orange	Solubility(ies): (In Water) Miscible
Upper/Lower Flammability: not determined	Initial boiling point and boiling range: 300 deg F
Odor: Aromatic	Partition coefficienton-octanol / water: not determined
Vapor Pressure: 1.2 mm Hg @ 20 deg C	Flash Point: 335 deg F
Odor Threshold: not determined	Auto-Ignition temperature: 700 deg F, 371 deg C
Vapor density: 2.8	Evaporation rate: not determined
pH: 0.14	Decomposition temperature: not determined
Relative Density: not determined	Flammability (solid or gas): not determined
Melting Point / Freezing Point: not determined	Viscosity: not determined

Section 10: Stability and Reactivity

Chemical Stability: Stable

Incompatibility: Strong oxidizers and Alkaline Caustics

Hazardous Polymerization: None

Section 11: Toxicological Information

Potential Health Effects: (oral, dermal or inhalation) have been determined, the product may cause slight dermal effects to persons with sensitive skin. May burn or irritate skin.

Possible skin reddening and temporary staining if not washed off affected area, possible stomach disorders if taken orally, lung congestion if breathed. If ingested may cause nausea and vomiting. Ingestion may cause burns of the mouth, throat and stomach.

Chronic Effects: None known

Carcinogenicity: Materials in this product are not considered carcinogens or teratogens.

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