

Report 02-May-15 Date

Page 1 of 4

Identification

Product Name: MicroMerge 5144

Synonyms: None

Product Use: Granular Micronutrient Fertilizer Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

Hazard Identification



Signal Word : Danger

Skin Irritation: Causes mild skin irritation. **Eve Irritation**: Causes serious eye damage. Acute Toxicity Oral : May be harmful if swallowed. Acute Toxicity Dermal: May be harmful in contact with skin.

Hazard Categories: Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye Irritation - 1; Skin Irritation - 3

Hazard Statement: May be harmful if swallowed

May be harmful in contact with skin Causes serious eye damage Causes mild skin irritation May be harmful if inhaled

Composition / Information on Ingredients

Component Blend of plant nutrients derived from Sodium Borate, Manganese Sulfate, Manganese Oxide, Zinc Sulfate and Zinc Oxide.

GUARANTEED ANALYSIS:

Sulfur (S): 5.0% Boron (B): 1.0% Manganese (Mn): 4.0% Zinc (Zn): 4.0% **CAS Number** Proprietary

Weight % 100.00

First Aid Measures

Eye: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing

eye. Call a poison control center or doctor for further treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a

poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Rinse

mouth with water. Do not induce vomiting. Do not give anything by mouth if

unconscious.

Indication of Immediate Medical: Treat symptomatically.

Attention and Special Treatment

Needed



Report 02-May-15 Date

Page 2 of 4

Fire Fighting Measures

Extinguishing Media: Use extinguishing media suitable for underlying cause of fire.

Specific Hazards Arising from the : None currently known.

Chemical

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

Accidental Release Measures

: Keep unprotected and unnecessary personnel out of spill area. **Personal Precautions**

Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, long-sleeved shirt

and long pants, and shoes plus socks. Use approved dust mask if needed.

Eyewash should be available in work area.

Confine spilled material to prevent spreading. **Emergency Procedures**

Methods and Materials for Sweep or vacuum up, then place recovered material in suitable containers for **Containment and Cleanup**

reuse, if uncontaminated. If contaminated, dispose of in accordance with

applicable regulations.

Handling and Storage

Precautions for Safe Handling: Keep locked up and out of reach of children. Do not contaminate water, food or

feed by storage, handling or disposal. Keep container tightly closed. Do not

allow water to be introduced into the contents of this container.

Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not

store with oxidizing agents or ammonium nitrate.

Exposure Controls / Personal Protection

TLV/PEL: No information found for mixture.

Appropriate Engineering Controls: General or local exhaust sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, long-sleeved shirt

and long pants, and shoes plus socks. Use approved dust mask if needed.

Eyewash should be available in work area.

Physical and Chemical Properties

Odor/Appearance: Granular material Flash Point, °F : Non-combustible Boiling Point, °F : Not applicable

Melting Point(Freezing point), °C : Not applicable Vapor Pressure, mm Hg @ 20 °C : Not applicable Vapor Density: Not applicable

Solubility in Water : Soluble

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : Not determined Evaporation Rate(Butyl Acetate = : Not applicable

1)

Octanol/Water Partition : Not applicable

Coefficient

pH: Not applicable



Report Date 02-May-15

Page 3 of 4

Flammable Limits (approximate : Not applicable

volume % in air)

Auto-ignition Temperature : Not applicable Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition : Emits oxides of carbon under fire conditions.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known. Incompatible Materials: None currently known.

11. Toxicological Information

Acute Toxicity (Oral LD50): 2,150 mg/kg (zinc sulfate heptahydrate). May be harmful if swallowed.

Acute Toxicity (Dermal LD50) : No data available. May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : No data available. May be harmful if inhaled.

Likely Routes of Exposure: Skin and eyes

Skin Irritation : Causes mild skin irritation.

Eye Irritation : Causes serious eye damage.

Skin Sensitization : Not listed as a skin sensitizer.

Carcinogenic : Not listed by IARC, NTP or OSHA.

Chronic Effects: None currently known. **Other Hazards**: None currently known.

12. Ecological Information

Ecotoxicity: No information found
Persistence and Degradability: No information found
Bioaccumulative Potential: No information found

Mobility in Soil: No information found

Other Adverse Effects: Marine pollutant under international classifications.

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name: Not regulated by DOT, IATA or IMDG.

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None

Environmental Hazards : Marine Pollutant under international shipping regulations. Ship as UN3077,

Environmentally Hazardous Substance, Solid, n.o.s., (Zinc Sulfate

Heptahydrate), 9, PG III, Marine Pollutant



Report Date **02-May-15**

Page 4 of 4

Transport in Bulk : Zinc sulfate heptahydrate RQ=1,000 lbs., not offered in single package where

RQ is exceeded.

Special Precautions for : No information found

Transportation

Freight Classification: Fertilizing Compound, (Manufactured Fertilizer), Solid, NOIBN (NMFC Item

68140, Sub 5, Class 50)

15. Regulatory Information

National Fire Protection :

Association Rating

Health: 1 Fire: 0 Reactivity: 0

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

Immediate(Acute) Health: Y Delayed (Chronic) Health: N

Sudden Release of N

Pressure: Fire: N

Reactive: N

16. Other Information

Data of Preparation/Revision: 02-May-2015