



Safety Data Sheet

Report Date 16-Apr-15

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1. Identification

Product Name : ASSET RTU 50G
Synonyms : None
Product Use : Granular Fertilizer Additive and Micronutrients
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word : Warning (no symbol)
Skin Irritation : Skin contact causes mild irritation.
Eye Irritation : Eye contact causes irritation.
Acute Toxicity Oral : Ingestion may result in vomiting and abdominal cramps.
Acute Toxicity Dermal : May be harmful by skin absorption.

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye Irritation - 2B; Skin Irritation 3

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Carboxylic acids, metal EDTA chelates, sodium molybdate and clay granules.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Boron (B): 0.02%		
Copper (Cu): 0.05%		
Iron (Fe): 0.10%		
Manganese (Mn): 0.05%		
Molybdenum (Mo): 0.0005		
Zinc (Zn): 0.10%		
The chelating agents is EDTA (ethylenediaminetetraacetic acid) or HEDTA (hydroxyethylendiaminetetraacetic acid). Also contains non-plant food ingredients - 6% mixed carboxylates.		

4. First Aid Measures

Eye : Immediately flush eyes with water, continuing for at least 15 minutes. Call a physician if irritation persists.

Skin : Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists.

Inhalation : Move person to fresh air. Give artificial respiration if needed. See a physician.

Ingestion : Give a large amount of water to drink, induce vomiting and immediately call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically. If there is contact made with the spray solution containing pesticides and/or spray adjuvants, follow the "Statement of Practical Treatment/First Aid" on the product(s) labeling.



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5. Fire Fighting Measures

- Extinguishing Media** : Use extinguishing media suitable for underlying cause of fire. If water spray is used, contain run off from fire fighting to prevent environmental contamination.
- Specific Hazards Arising from the Chemical** : Generates toxic and irritating fumes under fire conditions.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of the spill area.
- Protective Equipment** : Splashproof goggles or safety glasses, impervious gloves, impervious apron and footwear. Eyewash should be available in work area. Use NIOSH-approved respirator under fire conditions.
- Emergency Procedures** : Contain spilled product to prevent spillage into any waterways, lakes, streams, drains or ponds.
- Methods and Materials for Containment and Cleanup** : If uncontaminated, recover and reuse as product. If contaminated, sweep up or vacuum and place in a suitable recovery drum for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Keep packages tightly closed and do not allow water to be introduced to the container contents.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No information found
- Appropriate Engineering Controls** : Local exhaust sufficient.
- Personal Protective Equipment** : Splashproof goggles or safety glasses, impervious gloves, impervious apron and footwear. Eyewash should be available in work area. Use NIOSH-approved respirator under fire conditions.

9. Physical and Chemical Properties

- Odor/Appearance** : Tan granules with low odor.
- 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** : 45-49 lbs/cu ft
- Evaporation Rate(Butyl Acetate = 1)** : Not applicable
- Octanol/Water Partition Coefficient** : No information found
- pH** : 5.4-6.0 (5%)
- Flammable Limits (approximate volume % in air)** : Not applicable
- Auto-ignition Temperature** : Not applicable



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Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce ammonia gas and oxides of carbon under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known
Incompatible Materials : Product may react vigorously with acidic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No data available. Ingestion results in vomiting and abdominal cramps.
Acute Toxicity (Dermal LD50) : No data available. May be harmful by skin absorption.
Acute Toxicity Inhalation LC50 : No data available. Inhalation may cause irritation to the nose and throat.
Likely Routes of Exposure : Skin, eye, inhalation (dusts)
Skin Irritation : Contact may cause skin irritation.
Eye Irritation : Eye contact results in irritation (mechanical).
Skin Sensitization : No information found
Carcinogenic : No information found
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 : Do not contaminate water supplies, lakes, streams, ponds or drains with this product.

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 : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : No information found
Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Solid, NOIBN (NMFC Item 68140, Sub 5, Class 50)



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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 Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 16-April-2015