



Safety Data Sheet

Report Date 03-Jun-15

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1. Identification

Product Name : AVANTI RZ
Synonyms : None
Product Use : Fertilizer additive
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
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes eye irritation.
Acute Toxicity Oral : Not determined
Acute Toxicity Dermal : Not determined

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye irritation - 2A; Skin irritation - 2

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Carboxylic Acids	Proprietary	44.00
Polyphenolic Acids	Proprietary	36.00
Other ingredients	Nonhazardous	20.00

4. First Aid Measures

Eye : Flush eyes with water for several minutes while holding eyelids apart. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists.

Skin : Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation occurs and persists. Launder clothing before reuse.

Inhalation : Remove victim to fresh air. Get medical attention if symptoms occur and persist.

Ingestion : Do not induce vomiting. Rinse mouth with water and give one glass of water to drink. Get medical attention if symptoms develop.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media : Use water fog, foam, dry chemical or carbon dioxide extinguishing agents.



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Specific Hazards Arising from the Chemical : None currently known.

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

6. Accidental Release Measures

- Personal Precautions** : Avoid contact with eyes. Avoid prolonged skin contact.
Protective Equipment : Splashproof goggles, impervious gloves, rubber boots.
Emergency Procedures : Aqueous solutions may cause spill area to be extremely slippery and cause a slip hazard.
Methods and Materials for Containment and Cleanup : Contain and collect free liquids when possible. Neutralize small spills and residues, then collect free liquids using an inert absorbent material and place in appropriate containers for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapors. Keep containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled. Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all precautions from this SDS and the product label when handling empty containers.
Conditions for Safe Storage : Store in a cool, well-ventilated area away from heat and incompatible materials.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established
Appropriate Engineering Controls : Use with adequate general or local exhaust ventilation.
Personal Protective Equipment : Respiratory protection is not normally needed. Wear impervious gloves, chemical safety glasses with side shields or goggles, impervious coveralls, apron and boots. Suitable washing facilities should be available in the work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Dark brown liquid with ammonia odor.
Flash Point, °F : Not flammable
Boiling Point, °F : 100 Degrees C.
Melting Point(Freezing point), °C : <0 Degrees C.
Vapor Pressure, mm Hg @ 20 °C : 570 mmHg
Vapor Density : Not determined
Solubility in Water : Soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.018-1.048
Evaporation Rate(Butyl Acetate = 1) : No information found
Octanol/Water Partition Coefficient : No information found
pH : 9.4
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found



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10. Stability and Reactivity

- Reactivity** : No information found
- Chemical Stability** : Stable
- Hazardous Decomposition Products** : At extreme temperatures, carbon monoxide, an oxidation product, may be evolved.
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Do not mix with strong acids.
- Incompatible Materials** : Neutralization reaction will occur if exposed to acidic materials.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : Not determined
- Acute Toxicity (Dermal LD50)** : Not determined
- Acute Toxicity Inhalation LC50** : Not determined
- Likely Routes of Exposure** : Eyes, skin and inhalation.
- Skin Irritation** : Causes skin irritation
- Eye Irritation** : Causes eye irritation
- Skin Sensitization** : Not listed
- Carcinogenic** : Not listed by IARC, NTP or OSHA.
- Chronic Effects** : No information found.
- Other Hazards** : No information found.

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** : None currently known.

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** : None noted
- Transport in Bulk** : No information found
- Special Precautions for Transportation** : None noted
- Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)



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15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 1
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 : 03-June-2015