



Safety Data Sheet

Report Date 13-Apr-15

Page 1 of 4

1. Identification

Product Name : ASSET RS
Synonyms : None
Product Use : Additive for Fertilizers
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 : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Acute Toxicity Oral : Ingestion may cause irritation. Gastrointestinal damage, headache, diarrhea, confusion and coma.
Acute Toxicity Dermal : No hazard expected from skin absorption. Contact may cause some irritation.
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 %
Ammonium carboxylates	Proprietary	37.00
Inert ingredients	Proprietary	63.00

4. First Aid Measures

Eye : Immediately flush eyes with clean water for at least 15 minutes. If contact lenses are present, remove after first 5 minutes, then continue flushing the eye. Call a physician if irritation persists.
Skin : Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists. Launder clothing before reuse.
Inhalation : Move person to fresh air. See a physician if irritation persists.
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 contact is made with a spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the pesticide label(s).

5. Fire Fighting Measures

Extinguishing Media : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical : May emit oxides of nitrogen, ammonia, amines and carbon monoxide under fire conditions.



Safety Data Sheet

Report Date 13-Apr-15

Page 2 of 4

Special Fire Fight Proc : Evacuate nonessential personnel. Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers exposed to fire.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area. Wear appropriate personal protective equipment to minimize contact with skin, eyes and clothing.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Eyewash and emergency shower should be available in work area. Respiratory protection not needed for normal use; use NIOSH-approved respirator if misty.
- Emergency Procedures** : Dike spilled liquid to prevent spreading or runoff to waterways, lakes, streams, ponds or drains.
- Methods and Materials for Containment and Cleanup** : Collect spilled liquid and reuse, if uncontaminated. If contaminated, cover with inert absorbent material, collect and place in suitable containers 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 into container contents. This product may freeze at temperatures less than 10 Degrees F. Thawing occurs readily at temperatures greater than 32 Degrees F. Do not contaminate water supplies, lakes, streams or ponds.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with food, feed or other material to be used or consumed by humans or animals.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established for mixture
- Appropriate Engineering Controls** : Local exhaust is sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Eyewash and emergency shower should be available in work area. Respiratory protection not needed for normal use; use NIOSH-approved respirator if misty.

9. Physical and Chemical Properties

- Odor/Appearance** : Slightly hazy, colorless liquid; mild odor.
- Flash Point, °F** : Not flammable or combustible
- Boiling Point, °F** : 212 Degrees F.
- Melting Point(Freezing point), °C** : No information found
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.050-1.150
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : 5.5-7.0 (pure)



Safety Data Sheet

Report Date 13-Apr-15

Page 3 of 4

Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : Emits oxides of nitrogen, ammonia or amines and carbon monoxide.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid fire and high heat conditions.
Incompatible Materials : Strong oxidizer and strong alkaline chemicals.

11. Toxicological Information

Acute Toxicity (Oral LD50) : Ingestion may cause irritation, gastrointestinal damage, headache, diarrhea, confusion, and coma.
Acute Toxicity (Dermal LD50) : No data available regarding dermal toxicity or absorption. Skin contact may cause some irritation.
Acute Toxicity Inhalation LC50 : No data available. Inhalation may cause some irritation and breathing difficulty.
Likely Routes of Exposure : Skin and eyes.
Skin Irritation : Skin contact may cause irritation.
Eye Irritation : Eye contact may cause irritation.
Skin Sensitization : No information found
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 : Do not contaminate water supplies, lakes, streams or ponds 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



Safety Data Sheet

Report Date 13-Apr-15

Page 4 of 4

Special Precautions for Transportation : No information found

Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 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 : 13-April-2015