



Safety Data Sheet

Report Date 20-May-15

Page 1 of 4

1. Identification

Product Name : RETENTION
Synonyms : None
Product Use : Irrigation management tool - non-plant food
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 : Practically non-irritating
Eye Irritation : May cause slight eye irritation
Acute Toxicity Oral : LD50 >5,000 mg/kg (rat)
Acute Toxicity Dermal : LD50 >5,000 mg/kg (rabbit)

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 %
2-propenoic acid, sodium salt, polymer with 2-propenamide	7446-81-3	30
Inert ingredients	Proprietary	70

4. 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 Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media : Non-combustible liquid. Use water, water spray, foam, carbon dioxide or dry powder extinguishing agents.

Specific Hazards Arising from the Chemical : Product spills under fire conditions will create extremely slippery surfaces.



Safety Data Sheet

Report Date 20-May-15

Page 2 of 4

Special Fire Fight Proc : No special protective equipment required if fire only involves this product.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Do not flush spill area with water. Contain spilled product to prevent spreading or contamination of water supplies, lakes, streams, ponds or drains.
- Methods and Materials for Containment and Cleanup** : Soak up with inert absorbent material. Collect and place in suitable closed containers for disposal. After cleaning up liquid, flush away residues with minimal amounts of water. Collect water used for flushing and place in containers with collected spill material. Spill area will be extremely slippery.

7. 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 the container. Spill become very slippery when mixed with water.
- Conditions for Safe Storage** : Store in original container only. Keep from freezing. If product freezes, thaw completely and mix thoroughly before use.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL established.
- Appropriate Engineering Controls** : General and/or local exhaust should be sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Milky viscous liquid with aliphatic odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : >100 Degrees C.
- Melting Point(Freezing point), °C** : <5 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : 2.3 kPa @ 20 Degrees C.
- Vapor Density** : No information found
- Solubility in Water** : Completely miscible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.0-1.1
- Evaporation Rate(Butyl Acetate = 1)** : No information found
- Octanol/Water Partition Coefficient** : No information found
- pH** : 5 to 8 @ 5 g/L
- Flammable Limits (approximate volume % in air)** : Not applicable
- Auto-ignition Temperature** : Not applicable
- Decomposition temperature** : No information found



Safety Data Sheet

Report Date 20-May-15

Page 3 of 4

10. Stability and Reactivity

- Reactivity** : No information found
- Chemical Stability** : Stable
- Hazardous Decomposition Products** : May produce nitrogen oxides, carbon oxides, hydrogen cyanide (hydrocyanic acid).
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Avoid extremes of temperature. Protect from light, moisture and damage.
- Incompatible Materials** : Oxidizing agents may cause exothermic reactions.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >5,000 mg/kg (rat). May be harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >5,000 mg/kg (rabbit). May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : No LC50 available. May be harmful if inhaled.
- Likely Routes of Exposure** : Skin, eyes
- Skin Irritation** : Causes mild skin irritation.
- Eye Irritation** : Causes eye irritation.
- Skin Sensitization** : Not a sensitizer.
- Carcinogenic** : Not carcinogenic by IARC, NTP or OSHA.
- Chronic Effects** : None currently known.
- Other Hazards** : CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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** : No information found

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** : Adhesives, Adjuvants, Spreaders or Stickers, N.O.I. (NMFC Item 42652, Class 60)

15. Regulatory Information



Safety Data Sheet

Report Date **20-May-15**

Page 4 of 4

National Fire Protection Association Rating :

Health: 1 Fire: 1 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: N
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 20-May-2015