



## Safety Data Sheet

Report Date 28-Dec-17

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### 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** : None (no symbol)  
**Skin Irritation** : Practically non-irritating; not classified as hazardous  
**Eye Irritation** : May cause slight eye irritation; not classified as hazardous  
**Acute Toxicity Oral** : LD50 >5,000 mg/kg (rat); not classified as hazardous  
**Acute Toxicity Dermal** : LD50 >5,000 mg/kg (rabbit); not classified as hazardous  
  
**Hazard Categories** : Not classified as hazardous under 29 CFR 1910.1200 (2012)  
  
**Hazard Statement** : Not Hazardous

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
*Distillates (petroleum), hydrotreated high	64742-47-8	20-45
Inert ingredients	Proprietary	55-80

\*Note: Does not result in classification of the mixture if the kinematic viscosity is >20.5 mm<sup>2</sup>/s measured at 40C.

### 4. First Aid Measures

**Eye** : Rinse eyes immediately with plenty of water, also rinsing under the eyelids, for at least 15 minutes. Alternatively, rinse immediately with Diphotrine. Get prompt medical attention.  
**Skin** : Wash off immediately with plenty of soap and water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.  
**Inhalation** : Move person to fresh air. No hazards which require special first aid measures.  
**Ingestion** : Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control center immediately.  
**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** : Use water, water spray, foam, carbon dioxide or dry powder extinguishing agents.  
**Specific Hazards Arising from the Chemical** : Spills produce extremely slippery surfaces.  
**Special Fire Fight Proc** : No special protective equipment required if fire only involves this product.



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### 6. Accidental Release Measures

- Personal Precautions** : Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.
- 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** : Keep people away from spill or leak. Do not contaminate water.
- Methods and Materials for Containment and Cleanup** : Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. For large spills, contain spill by using absorbent to dam to prevent spreading. Clean up promptly by scoop or vacuum. Soak up residues with inert absorbent material. After cleaning, flush away traces with water.

### 7. Handling and Storage

- Precautions for Safe Handling** : Avoid contact with skin and eyes. Surfaces will be extremely slippery when spilled. When using, do not eat, drink or smoke.
- Conditions for Safe Storage** : Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. Incompatible with oxidizing agents.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL established.
- Appropriate Engineering Controls** : Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
- 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** : Does not flash
- 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** : 0.804 g/L @ 20 Degrees C.
- 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 data available
- Octanol/Water Partition Coefficient** : Not applicable
- pH** : 5 to 8 (0.5%)
- Flammable Limits (approximate volume % in air)** : No data available
- Auto-ignition Temperature** : Not applicable
- Decomposition temperature** : >150 Degrees C.

### 10. Stability and Reactivity



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**Reactivity** : No information found  
**Chemical Stability** : Stable  
**Hazardous Decomposition** : Thermal decomposition may emit nitrogen oxides and carbon oxides.  
**Products** : Hydrocyanic acid may be produced during combustion in oxygen deficient atmosphere.  
**Hazardous Polymerization** : Will not occur  
**Conditions to Avoid** : Protect from frost, heat and sunlight.  
**Incompatible Materials** : Incompatible with oxidizing agents.

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : >5,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Acute Toxicity (Dermal LD50)** : >5,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Acute Toxicity Inhalation LC50** : No LC50 available. Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Likely Routes of Exposure** : Skin, eyes  
**Skin Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Eye Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).  
**Skin Sensitization** : Not expected to sensitizing.  
**Carcinogenic** : Not carcinogenic.  
**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 (acrylamide).

### 12. Ecological Information

**Ecotoxicity** : Fish: LC50 oncorhynchus mykiss >100 mg/L/96 hours. Invertebrates: Daphnia EC50>100 mg/L/48 hours. Algae IC50 >100 mg/L/72 hours.  
**Persistence and Degradability** : Not readily biodegradable.  
**Bioaccumulative Potential** : The product is not expected to bioaccumulate.  
**Mobility in Soil** : No data available.  
**Other Adverse Effects** : None

### 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)



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### 15. Regulatory Information

National Fire Protection :  
Association Rating

Health: 0 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 N  
Pressure:  
Fire: N  
Reactive: N

### 16. Other Information

Data of Preparation/Revision : 28-December-2017