

# RETENTION™

NON-PLANT FOOD INGREDIENT

## ACTIVE INGREDIENTS:

30% ..... 2-propenoic acid, sodium salt, polymer with 2-propenamido  
70% ..... Inert Ingredients  
100% ..... TOTAL

All ingredients are exempt from tolerance requirements under 40 CFR 180.1001(d)

## KEEP OUT OF REACH OF CHILDREN

## WARNING

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

**WARNING!** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

NET CONTENTS: 30 Gallons (113.5 L)

SN 031015

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.htm>

F224

## MANUFACTURED FOR

HELENA CHEMICAL COMPANY  
225 SCHILLING BOULEVARD, SUITE 300  
COLLIERVILLE, TN 38017  
901-761-0050

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## WARNING

**BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.**

May be harmful if swallowed. May be harmful in contact with skin. Causes eye irritation. Causes mild skin irritation. May be harmful if inhaled. Keep product locked up and out of the reach of children. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clothing before reuse. Do not take internally. Avoid contact with or inhalation of spray application mist if present. Do not apply this product in such a manner as to directly expose workers or other persons. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling. Not for human or animal consumption.

**Personal Protective Equipment (PPE):** Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, and shoes plus socks when using this product. Take off any contaminated clothing and wash before reuse.

## FIRST AID

<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Rinse cautiously with water for several minutes and remove contact lenses if easy to do and continue rinsing.</li><li>• If irritation persists: Get medical advice/attention.</li></ul>
<b>IF ON SKIN:</b>	<ul style="list-style-type: none"><li>• Remove contaminated clothing.</li><li>• Wash with soap and water.</li><li>• Get medical advice/attention if irritation occurs.</li></ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Drink two glasses of water or milk.</li><li>• Do not induce vomiting.</li><li>• Call a physician immediately.</li></ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• Call a doctor or position control center if they feel unwell.</li></ul>

If contact is made with spray solution containing pesticide(s), follow the "Statement of Practical Treatment/First Aid" on the pesticide label.

## STORAGE AND DISPOSAL

**Storage:** Important! Keep from freezing. Store in original container and protect from freezing. If product freezes, thaw completely and mix thoroughly before use. Spills become very slippery when mixed with water.

**Dispose of contents/container in accordance with local, regional, and International regulations.**

## GENERAL INFORMATION

RETENTION™ is designed for use as an irrigation management tool for general agriculture applications. RETENTION™ contains water treatment resins injected into irrigation water to increase water efficiency and improve soil structure. Soil erodibility at the soil surface interface is reduced by improved inter-aggregate bonding and better maintenance of surface roughness. The end result is a product that can be used to improve irrigation efficiency.

## DIRECTIONS FOR USE

Directly inject desired rates of RETENTION™ into the irrigation system during normal irrigation cycles. Please refer carefully to all the details and instructions on this label for specific instructions and consult with your local Helena Chemical Company Sales/Technical Representative for additional information and guidelines pertaining to your hydro-treatment need.

## GENERAL RATE AND APPLICATION GUIDELINES

### Agriculture uses

Utilizing RETENTION™ in a planned and scheduled management program through the growing season will result in improved irrigation efficiency. As a planned program, it is recommended to apply 2 quarts per acre every 30 days from the first spring irrigation cycle and with continued treatment through the first fall frost.

### Refer to mixing and handling instructions.

RETENTION™ is a concentrated product containing highly active water treatment resins. RETENTION™ must be handled and applied carefully to insure trouble free application. As a general precaution, avoid RETENTION™ exposure and contact with small amounts of water. Avoid spills and direct contact, as the product is very difficult to wash and clean from the skin or equipment. **DO NOT PRE-MIX AND DIRECTLY APPLY RETENTION™ WITH CROP PROTECTION PRODUCTS SUCH AS HERBICIDES, INSECTICIDES, OR FUNGICIDES. RETENTION™ CAN BE APPLIED WITH LIQUID FERTILIZER, ONLY IF A JAR TEST INDICATES THAT COMPATIBILITY IS SUITABLE FOR USE WITH THE APPLICATION EQUIPMENT.**

## INJECTION PROCEDURES FOR RETENTION™ INTO IRRIGATION SYSTEMS

RETENTION™ is designed for direct injection into pressurized irrigation systems. Utilizing a Progressive Cavity Pump best completes this process, or alternative injection systems designed for metering small quantities of viscous materials.

**IMPORTANT:** The injection system utilized for applying this product must meet local safety and regulatory standards for direct injection application. At a minimum, the following general standards must be met prior to using this product.

1. The injection system must be interlocked with the irrigation system in so much that the injection system will not operate and/or will shut down immediately upon any failure of the irrigation system. This interlock mechanism can be accomplished through the use of low-pressure switches, flow sensors, or a direct interlocking wiring scheme with irrigation water pumps. The importance of this fail-safe interlock is to prevent unwanted injection of product, excessive application, and/or spill exposure.
2. The irrigation system must be equipped with backflow prevention to prohibit the backflow of treated water into the irrigation water source.
3. All hoses, clamps, fittings, and seals associated with the injection system must be constructed of materials that are chemically resistant and appropriate for use in the extreme environmental conditions of excessive heat and ultra violet light exposure. Further, the pressure ratings for all such components must be adequate to withstand all operating pressures. Contact your local Helena Representative for more information regarding the details of system specification and/or information about local codes and regulatory standards. Preparation of the injection equipment is very important to insure that the pump and metering system is clean/dry, and void of water. To insure injection system readiness, follow these instructions carefully.
4. The injection system including induction tubes, all hoses, pumps, fittings, and valves must be completely dry - small amounts of water in the injector tank will "gel" when exposed to RETENTION™ causing problems with injector performance. **NOTE:** RETENTION™ is designed for direct injection from the original drum package. Utilizing a drawtube and direct injection from the package minimizes exposure to unwanted moisture.
5. Purge the injection system with a Crop Oil Concentrate such as Agri-Dex® to insure that all excess moisture is flushed from the system. This purging process should also be used to prime/calibrate the system, and generally test that the system is operating properly. **IMPORTANT:** Utilize this step to test the fail-safe interlock with the irrigation system.
6. Turn on the sprinkler/irrigation system and confirm water flow before initiating RETENTION™ injection.
7. Always confirm that operation of injection equipment ceases as designed upon completion of an irrigation cycle or injection period.

**Disclaimer:** Always refer to the label on the product before using Helena or any other product.

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**CONDITIONS OF SALE–LIMITED WARRANTY  
AND LIMITATIONS OF LIABILITY AND REMEDIES**

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Read the Conditions of Sale–Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

This label is believed to be reliable and must be followed carefully. Injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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