



**SOIL CONDITIONER, SOIL PENETRANT AND LINE CLEANER**

**GUARANTEED ANALYSIS**

37.0% .....	Nonionic surfactants and polyacrylic acid salts
63.0% .....	Inert Ingredients
100.0% .....	TOTAL

KEEP OUT OF REACH OF CHILDREN

**WARNING**

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



SN 040315

WEIGHT PER GAL.: 9.90 lbs. (4.49 kg)

- NET CONTENTS:
- 2.5 Gallons (9.46 Liters)
  - 30 Gallons (113.55 Liters)
  - 250 Gallons (946.25 Liters)
  - Bulk

F224

MANUFACTURED FOR  
 HELENA CHEMICAL COMPANY  
 225 SCHILLING BOULEVARD, SUITE 300  
 COLLIERSVILLE, 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 serious eye irritation. Causes 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. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a POISON CENTER or doctor immediately.</li> <li>• Rinse mouth. Do NOT induce vomiting.</li> <li>• Do not give anything by mouth to an unconscious person.</li> <li>• Immediately call a POISON CENTER or doctor.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell.</li> <li>• If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a POISON CENTER or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR HAIR:</b>	<ul style="list-style-type: none"> <li>• Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> </ul>

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

- Get medical attention if irritation develops or persists.
- Wash contaminated clothing before reuse.

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.  
**STORAGE:** Store in original container only. Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate. Keep locked up and out of the reach of children

**CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading and add rinse water to spray tank. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at [www.acrecycle.org](http://www.acrecycle.org). Decontaminated containers may also be disposed of in a sanitary landfill.

For help in chemical emergencies involving spill, leak, fire or exposure, call toll free 1-800-424-9300.

**GENERAL INFORMATION**

INJECTOR® GT> is a proprietary blend of soil penetrants and soil, water and electrical conductivity modifying agents. It is designed to promote better absorption of irrigation water into the soil while enhancing the infiltration and penetration of water whether applied with conventional spray rig equipment or through an irrigation system. INJECTOR® GT> also helps manage the soluble salts that affect plant performance by helping keep the net movement of salts dispersed downward away from the soil surrounding the rooting zone. INJECTOR® GT> contains a proprietary line cleaning agent that can solubilize salt and calcite deposits in spray application equipment and irrigation lines. INJECTOR® GT> is designed for soil application.

The salinity of irrigation water is reported as electrical conductivity (EC). Depending on the source, the amount of salt in irrigation water can vary considerably. Salts accumulate in soil through the application of saline irrigation water, use of fertilizers and other means. A tremendous amount of salt can be carried in irrigation water. For example, one part per million (ppm) of salt in one acre foot of water weighs approximately 2.72 pounds. Therefore, using 3.5 acre feet of 500 ppm total dissolved solid content (TDS) water to irrigate an acre results in the deposition of over 4,700 pounds of salt.

Plants extract water and leave most of the salt behind. Over a period of time, this salt concentrates in the root zone of crops. Water and salts will move up through the soil profile due to evapotranspiration unless there is adequate leaching or drainage. To keep salt levels manageable, it is essential to keep the net movement of water and salt downward through the soil profile.

**APPLICATION**

INJECTOR® GT> can be applied in a wide variety of ways. This includes its use through flood, micro-jet, sprinkler jet and other irrigation systems. It can also be applied in conjunction with most types of liquid fertilizer. In addition, it can be applied as a soil spray. When metering INJECTOR® GT> directly into an irrigation system by means of a metering injection pump or suction regulated line, do not connect to an irrigation system used for chemical applications or directly to a public water system without a back siphon prevention system in place. Always connect to such systems in accordance with local and/or state regulations.

INJECTOR® GT> can also be used to reduce calcite deposits that contribute to algae growth in irrigation or water tubing.

**DIRECTIONS FOR USE**

The best results from using INJECTOR® GT> are usually achieved utilizing multiple applications. These applications should be made in the pre-irrigation and/or germination stages of plant growth. A pre-irrigation and/or soil leaching program is recommended prior to the application of INJECTOR® GT>. The use of INJECTOR® GT> will help diminish the effect of salts on many plant species including weeds and grasses. Therefore, a sound herbicide program is essential.

**APPLICATION RATES AND MIXING GUIDE**

**APPLICATION RATES:**

**For Use as a Soil Conditioner and Penetrant:**

The rate will vary depending on several factors. These factors include, but are not limited to, the following:

- Initial salinity of soil,
- Initial salinity of water source,
- The sensitivity of tolerance of the plants to salts,
- The stage of plant growth, frequency and type of irrigation,
- Type of application and others.

In general use the following rates for broadcast applications:

Problem soils and water with sensitive or moderately sensitive turf:	4 Qts./Acre/Application
Problem soils and water with tolerant or moderately tolerant turf:	2-3 Qts./Acre/Application
Maintenance rates for productive soils with moderately tolerant to tolerant turf:	1-2 Qts./Acre/Application

Adjust the rates to match the frequency and timing of applications.

**For Use as a Turf Soil Conditioner and Penetrant:**

**Recommendations for Use with Injection:**

Inject at a rate of 1 to 4 quarts per acre. Apply in a minimum of 50 gallons per acre. Repeat application each month or as required during the growing season.

**Recommendations for Use with Conventional Sprayers:**

Apply at a rate of 1 to 4 ozs. per 1,000 sq. ft. in a minimum of 1 gallon of water. Conventional sprayer applications should be watered in after application of INJECTOR® GT>. Repeat application each month or as required during the growing season.

**For Use as a Line Cleaner:**

If INJECTOR® GT> is utilized as a line cleaner for removing calcite and salt deposits, the best results are achieved with multiple applications through the equipment. Application rates of INJECTOR® GT> for this purpose will vary from 2-50 ppm depending on the problem's severity.

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**MIXING**

Prior to any pesticide application, all spray mixing and application equipment must be cleaned. Carefully observe all cleaning directions on the pesticide(s) label(s). Fill spray tank full with water and begin agitation. Add INJECTOR® GT> to the spray tank and mix for 1 to 2 minutes. Add pesticides as directed by labeling or in the following sequence:

1. Dry flowables or water dispersible granules
2. Wettable powders
3. Flowables
4. Solutions
5. Emulsifiable concentrates

Continue agitation.

\*NOTE: Since INJECTOR® GT> may result in increased seed germination, it is important to consider weed control. INJECTOR® GT> improves water infiltration, thus herbicide performance for products that have high soil mobility characteristics may be affected when tank mixed with INJECTOR® GT>. A jar test to check compatibility between your herbicide and INJECTOR® GT> should be conducted before tank mixing. Herbicide performance is not affected when applied sequentially with INJECTOR® GT> or when INJECTOR® GT> is applied in-furrow. Consult your supplier about coordinating your herbicide applications.

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

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