

SPECIMEN LABEL



SOIL CONDITIONER

ACTIVE INGREDIENTS: (By Weight)

30.00%Polyacrylic Acid Salt
2.00% Alkyl Aryl Sulfonate
68.00% Inert Ingredients
100.00%TOTAL

KEEP OUT OF REACH OF CHILDREN

WARNING

Liquid may cause eye injury or irritation.

See Inside Panel for Additional Precautionary Statements.

NET CONTENTS:

NET WEIGHT:

SN 030696/1197

F224

MANUFACTURED BY

HELENA CHEMICAL COMPANY

225 SCHILLING BOULEVARD, SUITE 300

COLLIERVILLE, TN 38017

PRECAUTIONARY STATEMENTS

WARNING

Liquid may cause eye injury or irritation. Do not get in eyes, on skin, or on clothing. Avoid breathing of vapors or water solutions. In addition, always follow precautionary statements on the accompanying labels of any jointly applied product(s).

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

WHAT TO DO IN CASE OF CONTACT:

IF IN EYES: Immediately flush eyes with clean water for at least 15 minutes. See a physician.

IF INHALED: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, see a doctor. Give artificial respiration and see a doctor immediately if breathing has stopped.

IF SWALLOWED: Give a large amount of water to drink and immediately call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN: Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists.

STORAGE AND DISPOSAL

Store in original container only. Keep container tightly closed, do not allow water to be introduced into the contents of this container. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment washwaters or spray waste. Do not store near heat or open flame.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and utilize rinsate, then offer for recycling or reconditioning, or puncture and dispose of according to state and local authorities. If burned, stay out of smoke. For help in chemical emergencies involving spill, leak, fire or exposure call toll free 1-800-424-9300.

GENERAL INFORMATION

The salinity of irrigation water is reported as electrical conductivity (ECe). 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 of trees results in the deposition of over 4700 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.

ECe-X® is a proprietary blend of soil, water and electrical conductivity modifying agents. It is useful in managing 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.

APPLICATION

ECe-X® can be applied in a wide variety of ways. This includes its use through furrow, flood, microjet, 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 **ECe-X®** 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.

ECe-X® can also be used to reduce algae growth in irrigation or water tubing.

DIRECTIONS FOR USE

The best results from using **ECe-X®** 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 **ECe-X®**. The use of **ECe-X®** will help diminish the effect of salts on many plant species including weeds and grasses. Therefore, a sound herbicide program is essential.

RATES

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

- Initial salinity of soil
- The stage of plant growth, frequency and type of irrigation
- Initial salinity of water source
- The sensitivity of tolerance of the crop or plants to salts
- Type of application (i.e., band, furrow, broadcast) and others

In general use the following rates for broadcast applications:

Problem soils and water with sensitive or moderately sensitive plants: 4 Qts/Acre/Application

Problem soils and water with tolerant or moderately tolerant plants: 2-3 Qts/Acre/Application

Maintenance rates for productive soils with moderately tolerant to tolerant plants: 1-2 Qts/Acre/Application

Adjust the rates to match band furrow or other applications and to match the frequency and timing of applications.

CROPS

Plants have widely varying responses to soil and water salinity. This can be affected by the life stage of the plant and by soil of foliar applications. In general, plants can be grouped into sensitive, moderately sensitive, moderately tolerant or tolerant based on their sensitivity of tolerance to salt.

Some plants are relatively unaffected by high levels of salinity. These plants are tolerant or moderately tolerant of salinity because they can adjust osmotically to the increased salinity of the soil water largely by accumulating salts absorbed from the soil water. Salts accumulate in the root cells in response to the increased salinity of the soil water. This helps maintain water flow from the soil to the roots. These tolerant to moderately tolerant plants include:

FIBER AND GRAIN CROPS

Barley, Cotton, Cowpea, Guar, Kenaf, Oats, Rye, Safflower, Sorghum, Soybean, Sugar Beet, Triticale, Wheat.

GRASS AND FORAGE CROPS

Barley, Bermudagrass, Mountain Brome, Hubam Clover, Sweet Clover, Tall Fescue, Rape, Perennial Ryegrass, Forage Wheat.

VEGETABLE AND FRUIT CROPS

Artichoke, Asparagus, Red Beet, Zucchini Squash.

WOODY CROPS

Date Palm, Fig, Jojoba, Olive, Papaya, Pineapple, Pomegranate.

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

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Some plants can be affected by even moderate levels of salinity in soils and water. Salt tolerance within this group can vary widely. These plants adjust osmotically to increased soil salinity, but by a process different from the tolerant or moderately tolerant plants. Rather than accumulating salts, these plants produce internally some of the chemicals necessary to increase the concentration of constituents in the root cells. These chemicals include sugars and organic acids. This process requires more energy, therefore crop growth and yield are more suppressed. These plants include:

FIBER AND GRAIN CROPS

Beans, Corn, Flax, Foxtail Millet, Peanuts, Rice, Sesame, Sugarcane, Sunflower.

GRASS AND FORAGE CROPS

Alfalfa, Bentgrass, Bersam Clover, Ladino Clover, Strawberry Clover, Forage Corn, Forage Cowpea, Oats, Orchard Grass, Rye, Common Vetch.

VEGETABLE AND FRUIT CROPS

Bean, Broccoli, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Celery, Sweet Corn, Cucumber, Eggplant, Garlic, Kale, Lettuce, Muskmelon, Okra, Onion, Parsnip, Peas, Pepper, Potato, Pumpkins, Radish, Spinach, Squash, Strawberry, Sweet Potato, Tomato, Turnip, Watermelon.

WOODY CROPS

Almond, Apple, Apricot, Avocado, Blackberry, Boysenberry, Castorbean, Sweet Cherry, Currant, Gooseberry, Grape, Grapefruit, Lemon, Lime, Mango, Orange, Passion Fruit, Peach, Pear, Persimmon, Plum, Prune, Raspberry, Tangerine.

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 should 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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