



# OPTYSIL<sup>®</sup>



## PLANT HEALTH TECHNOLOGIES

### GUARANTEED ANALYSIS

Iron (Fe) ..... 2.0%

2.0% Chelated Iron

Derived from Iron EDTA

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

Contains Beneficial Substances

16.5% Silicon Dioxide (SiO<sub>2</sub>) from potassium silicate

TOXICITY END POINTS FOR THIS PRODUCT EXCEED GHS CLASSIFICATION

## KEEP OUT OF REACH OF CHILDREN CAUTION

### PRECAUTIONARY STATEMENTS

If medical advice is needed, have product container or label on hand.

Read label before use.



**NET CONTENTS:** 1 Gal (3.79 L)  
**NET WEIGHT:** 10.01 lbs (4.54 kg)  
**DENSITY:** 1.2 g/mL @ 68 °F  
**pH 6.5 ±0.5 @ 68 °F**



**INNVIDIS  
BIOSCIENCE™**  
PLANT HEALTH TECHNOLOGIES  
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## PRODUCT INFORMATION

*OPTYSIL* is formulated to supplement iron and silicon levels in agricultural crops and turf grasses. Increased levels help mitigate the negative effects of water deficiencies and/or high salinity. Beneficial effects of silicon in monocot plants include strengthening and promotion of upright stature, reducing lodging, favorable exposure of leaves to light, aiding in stress reduction such as drought stress, and improving tolerance to heat or cold stress.

## DIRECTIONS FOR USE

Add *OPTYSIL* to spray tank that is 1/2 to 2/3 filled with water and has the agitator turned on. Add other products according to mixing instructions. Fill the sprayer with remaining water.

*OPTYSIL* is compatible with most agricultural chemicals and nutrients. *OPTYSIL* may be applied as a foliar spray or to the soil using ground equipment, or by aerial application, or through irrigation systems. *OPTYSIL* can be incorporated into most spray tank mixes with other fertilizer or pesticide applications. Follow all directions and precautions on pesticide labels prior to mixing with *OPTYSIL*. A jar test is recommended to check for compatibility when new or unfamiliar tank mix combinations are used.

For best results the *OPTYSIL* solution should be used within a few hours of mixing into the spray tank.

**Foliar Application:** *OPTYSIL* is easily translocated into the plant when applied in a foliar application with sufficient water to uniformly cover all foliage. The recommended time of application is during critical growth and development stages or applied every 10–14 days. For mitigation of drought effects, initiate applications before first symptoms of water deficiency appear then continue the treatments every 5 to 7 days for 2 to 3 applications.

Exercise caution with foliar applications during sun exposure, strong winds and weather conditions such as high temperatures and poor drying conditions that could limit product from moving inside the plant.

**AERIAL APPLICATION:** Minimum of 3 gallons of water/acre.

**DILUTE SPRAYS:** Minimum of 20 gallons of water/acre.

**Chemigation Application:** Apply via sprinklers or low pressure irrigation systems with irrigation water. Use back-flow prevention valve

(check-valve) when injecting into irrigation systems.

**SPRINKLER CHEMIGATION:** Apply 1–3 quarts *OPTYSIL* per acre with the irrigation water. Apply with sufficient carrier to give complete coverage.

## APPLICATION RATE RECOMMENDATIONS

Application rates and timing may vary according to specific crop requirements, management objectives, soil nutrient availability, and/or environmental conditions. Recommended time of application is during critical growth and development stages or every 10–14 days.

**TREE, VINE AND FRUIT CROPS:** Apply at 6.4 oz/A on crops such as, but not limited to, apples, apricots, avocados, olives, pistachios, strawberries, almonds, cranberries, grapes, walnuts, pears, citrus fruits, cherries, peaches, plums, prunes, blueberries.

**FIELD CROPS:** Apply at 6.4 oz/A on crops such as, but not limited to, alfalfa, canola, cotton, flax, mint, clover, corn, hops, peanuts, soybeans, sugarcane, sunflowers, wheat, barley.

**VEGETABLE CROPS:** Apply at 6.4 oz/A on crops such as, but not limited to, beets, carrots, cucumbers, lettuce, onions, turnips, radishes, spinach, broccoli, cabbages, celery, brussels sprouts, peppers, tomatoes, potatoes, peas, lentils, beans.

**OTHER CROPS:** Apply as early in the growing season as possible, providing there is adequate leaf coverage.

**TURF GRASSES:** Apply at 6.4 oz./acre.

Consult your Certified Crop Advisor for the optimum application timing.

## STORAGE & DISPOSAL

Store between 32 °F and 86 °F. During storage crystals may appear which dissolve in water while diluting. Crystallization does not affect the quality of the product or its properties. Keep containers tightly closed and in a vertical position. **DO NOT** reuse container. **DO NOT** contaminate water, food or feed by storage or disposal. Triple rinse or equivalent and dispose of container in accordance with local, state and federal regulations.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfc.org/metals.html>

## WARRANTY, DISCLAIMER AND LIMITATION OF DAMAGES

INNICTIS® BioScience Plant Health Technologies warrants only that this product conforms to the product description on the label and is reasonably fit for the purposes stated in the Directions For Use. The Directions for Use of this product are believed to be adequate and must be followed carefully. It is, however, impossible to eliminate all risks associated with this product. Crop injury, ineffectiveness, or other unintended consequences may result due to such factors as weather conditions, presence or absence of other materials, or the manner or use or application, all of which are beyond the control of INNICTIS® BioScience Plant Health Technologies. All such risks must be assumed by the buyer or user. Except as warranted on this label, INNICTIS® BioScience Plant Health Technologies makes no representation, warranty or guarantee, whether expressed or implied including, but not limited to, warranty of merchantability, fitness for a particular purpose, or otherwise. No agent or representative of INNICTIS® BioScience Plant Health Technologies or the seller of the product is authorized to amend the terms of this Warranty disclaimer or the product's label or to make a representation or recommendation different or inconsistent with the label of this product. To the extent consistent with applicable law, INNICTIS® BioScience Plant Health Technologies' maximum liability for breach of its warranty or for use of this product, regardless of the form of action, shall not exceed the purchase price of this product. To the extent permitted by applicable law, INNICTIS® BioScience Plant Health Technologies shall not be liable for consequential, special or indirect damages resulting from the use, handling, application, storage, or disposal of this product or for damages in the nature of penalties, and the buyer and the user waive any right that they may have to such damages. If the warranty and liability limitations or disclaimer are not acceptable, return the unopened container to the place of purchase for full refund. To the extent not inconsistent with applicable law or the label, the purchase, delivery, acceptance and use of this product by the buyer is subject to the terms and conditions of seller's sales invoice for this product.