

**NEW
PRODUCT!**



OsmoTech™

ENVIRONMENTAL PROTECTANT & NUTRIENT ACTIVATOR

- **Add to Fertilizer and Micronutrients Tank Mixes To Maximize Uptake**
- **Regulates and Strengthens Osmotic Pressure**
- **Fights Off Environmental Stress Such as Drought, Heat, and Salinity**

CONTAINS NON-PLANT FOOD INGREDIENTS:

22%Glycine betaine
0.1%..... Natural Wetting Agent (Yucca schidigera)

PRODUCT DESCRIPTION:

OsmoTech is a new technology to protect and improve the plant's ability to survive under environmental stress. Derived from the naturally derived plant extract, this unique osmoprotectant stabilizes proteins and cell membranes reducing damage from drought, salinity, cold / frost and heat. OsmoTech accomplishes this by adjusting the osmotic balance inside the plant cells and tissue and reducing the negative effect of these stress factors.

Can be added to the tank mix of any fertilizer or micronutrient product to improve the plant's osmotic properties and promote the quick penetration of nutrients into the leaf surface, absorption and utilization by the plant. By adding OsmoTech to each mix, even difficult elements such as calcium become more effective and available. OsmoTech translocates macro and micronutrients throughout the plant system, even into important but often harder to reach areas such as developing fruits and vegetables. Proven in independent testing to increase the uptake of nitrogen, calcium and other micros it can be applied by either drenches (through the root system) or foliar sprays (leaf system).

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PASTURE GRASSES

Can be added to all fertilizer and micronutrient mix. Used on all pasture grasses and legumes to improve nutrient uptake for better livestock nutrition of cattle, sheep, goats, llamas and many other animals. Will help improve and maintain top forage production including warm-season perennial pastures, reducing expensive supplemental feed additives.

ENVIRONMENTAL STRESS PROTECTANT

With erratic and extreme weather conditions to contend with, a product that reduces the effects of environmental stress can be an important tool in a nutritional program. OsmoTech is an osmoprotectant and works as an osmoregulator. It helps plants endure all types of Abiotic stresses (environmental stresses) caused by heat, salinity, drought and cold/frost. OsmoTech accomplishes this

- **Combats Frost / Freezing Damage**
- **Translocates N-P-K and Micronutrients Throughout the Plant**
- **Increases Nutrient Absorption and Utilization.**

| Application Rates | | |
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| Frost Protection | Apply 3 Quarts per acre (Apply 7 Liters per Hectare) | Apply 72 hours to 7 days before cold temperatures. |
| Nutrient Activator | 1 – 1.5 Quarts per 100 Gallon tank mix | Mix into tank with N-P-K fertilizers and/or micronutrients. Do a jar test (compatibility test) before mixing in spray tank. |
| Environmental Stress Protectant: Citrus, tropical fruits, stone fruits, pome fruits and nuts: | Apply 3 Quarts per acre. (Apply 7 Liters per Hectare) | Apply 3-4 times during growth cycle. Applications should be timed at early season growth, pre-flowering, and during fruit or nut development. Mix with a minimum of 50 gallons of water |
| Environmental Stress Protectant: Tomatoes and other vegetables, grapes, small fruits, leaf crops, peanuts, cotton, tobacco and other agronomic crops, ornamentals and flower crops: | 3 Quarts per acre (Apply 7 Liters per Hectare) | Apply 3-4 times during growth cycle. Applications should be timed at early season growth, pre-flowering, and during fruit or vegetable development. Mix with a minimum of 30 gallons of water |
| Pasture grasses | 3 qts - 1 gal per acre | Apply two times after dormancy. Apply again after each cutting. |

by adjusting the osmotic balance inside the plant cells and tissue and thus reducing the negative effect of these stress factors. Under drought induced stress conditions, OsmoTech was tested (in a University study) and shown to increase photosynthetic capacity, protein, and chlorophyll content. Stress caused by saline conditions reduces a plants chlorophyll production. Bolstering the production of chlorophyll is very important to drought tolerance and overall plant health.

Use OsmoTech to improve the plant's tolerance against freezing temperatures, frost and other environmental stresses. It will help regrowth rates after cold temperatures and boost yield in environmental stress conditions. Tested under heat, drought, salinity, and freezing temperatures.

MIXING:

Always use a jar test with appropriate concentrations before mixing chemicals in your tank. The following mixing procedure should be followed after OsmoTech has been diluted with appropriate amounts of water. Add products to mix in this order: 1. wettable powders, 2. flowables, 3. water solubles, 4. surfactants, 5. emulsifiable concentrates. Be sure to agitate during each addition. Be sure each product is mixed well before adding the next. Apply all of mixture in same day. Always use a jar test before mixing OsmoTech with pesticides and fertilizers in your tank.

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| FIRST AID | |
| IF SWALLOWED: | Call a poison center or doctor if you feel unwell: Rinse mouth. |
| IF IN EYES: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. |
| IF ON SKIN: | Remove contaminated clothing and wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. |
| IF INHALED: | Call a poison center or doctor if you feel unwell. |
| You may also contact 1-800-992-5994 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101), Keep out of reach of children (P102), Read label before use (P103). | |
| STORAGE: Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets. | |
| DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container. | |

The following precautionary statements and pictograms are based on The Globally harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)



WARNING

H320 Causes Eye Irritation
H316 Causes Mild Skin Irritation

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. **IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

Manufactured By:

