

EPA Exempt FIFRA, 40 CFR § 180.1072 Poly-D-glucosamine (chitosan) Exemption



BioPlex[®] WILT-STOPPER Foliage Film[®]

Anti-Transparent | Clear Barrier Shield | Anti-Microbial
Anti-Fungal | Biostimulant

Prevents Wilt and Preserves Plant Hydration

BioPlex Wilt-STOPPER Foliage Film is "uniquely different" than all other natural or synthetic wilt and hydration management products. Besides its durable, antitranspirant film properties, it also contains anti-fungal, anti-bacterial and antiviral disease control properties as well.

BioPlex Wilt-STOPPER Foliage Film is formulated from chitosan. Chitosan is a naturally occurring substance found in the cell walls of all crustaceans, most fungi, and the exoskeletons of most insects. Due to the unique molecular chemistry of chitosan, it possesses excellent film forming, shield-like residual properties or barrier when solubilized in water and applied to an inert or vegetative plant surface.

Chitosan in a water soluble form, when applied foliar, results in a durable, clear and opaque film barrier that significantly minimizes involuntary plant transpiration simply by shielding the 'stomata' found within the plant's vegetative leaf structures and surfaces. It can even help in the recovery of stress shocked transplanted ornamentals and other specialty crops.

BioPlex Wilt-STOPPER Foliage Film is a natural biomolecule which improves plant health and reduces transpiration by increasing cellular hydration capacity without reducing plant function or the appearance of the plant vegetation.

Chitosan is EPA 25b Exempt and is Extremely Safe and Non-Phytotoxic
BioPlex Wilt-STOPPER Foliage Film (5.75% Chitosan) is 100% bio-compatible, biodegradable, and hypoallergenic. Chitosan's safety has been extensively studied by researchers, independent scientific review committees at the EPA, by the FDA, and more. It has been found to be safe for humans and the environment.

5.75% Chitosan is NEW Proprietary Technology Totalling 5 Years in R&D.
After 5 years of research and development plus a 3 year EPA application process, chitosan was recently granted the EPA 25b exemption in January of 2023.



Net Contents: US 64 fl. oz. (1.892 Liters)

GUARANTEED ANALYSIS:

NON-PLANT FOOD INGREDIENT(S)

Poly-D-Glucosamine (Chitosan) ... 5.75%
(Anti-Fungal)

Total Other Ingredients 94.25%

*Derived from: Processed Crab, Shrimp,
Crustacean Shells and Insect Skeletons*

SAFETY INFORMATION:

Keep out of reach of children and animals. Adverse reactions may occur in sensitive persons. May cause skin, eye and respiratory tract irritation. Wear appropriate personal protective equipment. Harmful if swallowed.

STORAGE & HANDLING

INFORMATION:

Store in a cool and dry location. Dispose of contents and packaging in accordance with local regional and federal legislation.

[5] Barka, E. Ait, et al. "Chitosan improves development, and protects *Vitis vinifera* L. against *Botrytis cinerea*." *Plant Cell Reports* 22:3 (2004): 608-614.[6] E.M. El-Tantawy, et al. "Behavior of Tomato Plants as Affected by Spraying with Chitosan and Aminofort as Natural Stimulator Substances under Application of Soil Organic Amendments." *SciAlert*



Ornamental Foliar Use - Rates of Application

Turf, Tree & Shrub Foliar Anti-Desiccant & Biostimulant Maintenance:

Dilute 1/4 to 1/2 fl. oz. per gallon of water and thoroughly drench foliage. Apply every 6-8 weeks as needed.

Turf, Tree & Shrub Foliar Anti-Desiccant & Biostimulant EXTREME STRESS or SUMMER-DIG:

Dilute 1/2 to 3/4 fl. oz. per gallon of water and thoroughly drench foliage. Apply every 4-6 weeks as needed.

Tree & Shrub Nursery Plant Inventory Maintenance:

Dilute 1/4 to 3/4 fl. oz. per gallon of water. Apply every 4-6 weeks as needed.

(Inject into drip or over head at 1/10 to 2/10 fl. oz. per gallon (1/2 ml – 1 ml per L) of water or nutrient solution nurse tank. Use with 100:1 dilution and apply every 4-6 weeks as needed.)

Hemp, Cannabis, Vegetable Grown Indoor Under Artificial Grow Lights:

Dilute 1/10 to 2/10 fl oz per gallon of water (1/2 ml – 1 ml per L) of water and spray with lights turned off on foliage 3-5 times per week.

Flowers: 3 to 4 fl. oz. per acre. Apply every 1-2 weeks.

Vineyard and Orchard Fruits: 6 to 8 fl. oz. per acre. Apply every other week for first four treatments, then once monthly through crop harvest.

Greenhouse Vegetables: 4 fl. oz. per acre. Apply every 2-4 weeks from sowing and transplanting.

NOTICE: BioPlex Organics warrants that the product conforms to its chemical description and is suitable for the purposes stated on the label when used in accordance with the directions under normal conditions of use. BioPlex Organics will not be held responsible for incidental or consequential damage resulting from the use of this product contrary to instructions or under abnormal conditions or under conditions and circumstances not reasonably foreseeable to BioPlex Organics.

WARNING: KEEP OUT OF THE REACH OF CHILDREN. DO NOT INGEST INTERNALLY. Avoid contact with skin and eyes. Wear necessary and appropriate protective clothing when using this product. Direct exposure may cause irritation to skin, eyes, and mucous membranes. In the event direct contact is made with skin, eyes, or other exposed body parts, IMMEDIATELY wash the contact area with copious amounts of clean water. Optimum storage temperatures: 40-80 degrees Fahrenheit.



Developed & Formulated by:

BioPlex Organics / Turf Chemicals Plus, Inc. • www.bio-plex.com

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Information regarding the contents and levels of metals in this product is available on the internet at www.aapfco.org/metals.html