**Messenger® STS**

A Biochemical Pesticide that:
- Aids in disease management in strawberry, fruiting vegetables and grapes
- Facilitates Integrated Pest Management Programs

**Wettable Dry Granule • FOR USE IN CALIFORNIA**

**ACTIVE INGREDIENT:**
Harpin Protein: .................................................... 3.0%
OTHER INGREDIENTS: ............................................. 97.0%
Total: ............................................................... 100.0%

EPA Reg. No. 71771-1   EPA Est. No. 071771-PA-001

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION**

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**
Applicators and other handlers must wear:
- Long-sleeved shirt and long pants.
- Shoes and socks.
- Particulate dust mask, when mixing.

**USER SAFETY RECOMMENDATIONS**
Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsates.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses; and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted entry interval. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plant, soil, or water is:
- Coveralls;
- Waterproof gloves; and
- Shoes and socks.

**PRODUCT INFORMATION**

Messenger STS stimulates the plant’s natural growth and defense systems and works best when used in conjunction with good crop management practices.

**GENERAL INSTRUCTIONS**

**SITES**

Messenger STS may be used for greenhouse, shadehouse, nursery, and field production on all crops listed on this label.

**COVERAGE**

Use spray volume adequate to obtain coverage without runoff. Uniform or full leaf coverage is helpful but is not required.

**DAYS TO HARVEST**

 Messenger STS may be applied up to the day of harvest.

**USE ADVISORIES**

**USE PROMPTLY**

Use product within 8 hours of mixing into water. Reseal opened packets to minimize exposure to air and moisture. Use opened packets within 3 weeks.

**MIXING**

Messenger STS may be tank mixed with most other labeled pesticides to enhance efficiency. Do not use Messenger STS in tank mixes or water below pH 5.0 or above 10.0. Use of the resulting tank mix must be in accordance with more restrictive label limitations and precautions. No dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Messenger STS may be inactivated by exposure to strong oxidizing agents or materials that are strongly acidic or basic found in some tank mixes.

- Do not mix this product with pyrophosphates, phosphoric acid, or other strong oxidizers
- Messenger STS is a protein, therefore, compatibility with inorganic salts, chemicals using clay-based formulas, or other materials in a tank mix cannot be assured under all circumstances.
- Only non-ionic adjuvants which have been approved for use on growing and harvested crops may be used.

Check with your local PLANT HEALTH CARE field representative or PLANT HEALTH CARE Customer Service for specific compatibility information for Messenger STS and other labeled products.
DILUTION WATER QUALITY
If dilution water is high in total mineral content, salinity, and/or suspended solids then first dissolve Messenger STS in an appropriate volume of “clean water” such as municipal tap water. Then pour the dissolved Messenger STS solution into the dilution water for the spray (see Step 1 of “Mixing Instructions”).

DILUTION WATER QUANTITY
For application rates of less than 4 oz per acre, if dilution water is chlorinated (e.g., municipal water) and the volume exceeds 150 gpa, then use labeled water treatment products to remove excess chlorine. Consult your PLANT HEALTH CARE representative if you need further directions on water treatment.

RAIN
Do not apply during rain. Reapplication is not necessary if the spray has dried before rain begins.

STRESSED PLANTS
Plants must be actively growing at the time of foliar applications. Applications made to plants that are stressed by extreme heat, cold, moisture, or nutrient deficiencies may be less effective.

SPRAY DRIFT
Avoiding spray drift at the application site is the responsibility of the applicator. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering these factors when making decisions.

APPLICATION INSTRUCTIONS
Messenger STS may be used as a greenhouse or field application using conventional ground or aerial equipment. Use the following tables to make proper decisions on application rates and timing. Follow recommendations for your crop.

VEGETABLE CROPS

<table>
<thead>
<tr>
<th>Crop</th>
<th>Rate (Gal/Acre)</th>
<th>Dilution (Gal/Acre)</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRUITING VEGETABLES</td>
<td>20-125 by ground.</td>
<td>Minimum 3 by air.</td>
<td>Begin applications prior to first bloom. Repeat at 21-28-day intervals. For direct-seeded plants, begin 14 days after first true leaf.</td>
</tr>
</tbody>
</table>

Berries

<table>
<thead>
<tr>
<th>Crop</th>
<th>Rate (Gal/Acre)</th>
<th>Dilution (Gal/Acre)</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRAWBERRY</td>
<td>20-125 by ground.</td>
<td>Minimum 3 by air.</td>
<td>Begin applications when plants are established. Repeat at 21-28 day intervals as needed.</td>
</tr>
</tbody>
</table>

WARRANTY AND DISCLAIMER
CONDITIONS OF SALE AND EXCLUSIVE WARRANTY
The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness of the product, or other unintended consequences may result because of such factors as horticultural practices, use with other products (unless otherwise expressly provided in the Directions for Use of this product), presence of other materials, the manner of use or application, and various environmental conditions, including but not limited to weather conditions and moisture conditions. To the extent consistent with applicable law, all of the aforementioned risks are beyond the control of PLANT HEALTH CARE INC. and the Buyer shall assume all such risks.

EXCLUSIVE WARRANTIES
PLANT HEALTH CARE INC. warrants that at the time of first sale of this product it conforms to the chemical description on the label and under normal conditions is reasonable fit for the purposes referred to in the Directions for Use, subject to inherent risks referred to above. To the extent consistent with applicable law, if this product does not perform as warranted above, customer’s sole remedy for breach of that warranty shall be replacement of the product or refund of the purchase price paid, at the option of PLANT HEALTH CARE INC. TO THE EXTENT ALLOWED BY LAW, THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, TERMS, OR CONDITIONS EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO WARRANTIES, TERMS, OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND SATISFACTORY QUALITY.

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To the extent consistent with applicable law, Buyer and Users of this product assume the risk of any use contrary to the Directions for Use and/or all of the risks inherent in the use of this product as set forth above. PLANT HEALTH CARE INC. offers this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Exclusive Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of PLANT HEALTH CARE INC.

PROMPT NOTICE OF CLAIM
PLANT HEALTH CARE INC. must have prompt notice as soon as Buyer or User has reason to believe they may have a claim (not to exceed twenty-one days from the date of application) so that an inspection of the affected property and growing crops may be made. Unless Buyer and Users shall promptly notify PLANT HEALTH CARE INC. of any claims, they shall be barred from obtaining any remedy.

TANKS MIXES
To the extent consistent with applicable law, tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of User, Applicator, and/or Application Advisor. Read and follow the entire label of each product to be used in a tank mix with this product.

LIMITED USE LICENSE AND PATENTS
The contents of this package and/or the use of the contents are covered by U.S. Patent Nos. 5,849,868, 5,859,324, 5,776,889, 5,977,060, and 6,277,814 as well as pending patent applications. The purchase of this package grants the Buyer a license, under these patents and pending patent applications, to use its contents only for treating plants, plant seeds, and other plant parts as described herein.

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