



FOR USE AS A SEED TREATMENT APPLICATION INSTRUCTIONS

TS601® as a seed treatment may be applied as a water-based slurry alone or with other registered seed treatment insecticides and fungicides through standard slurry or mist commercial seed treatment equipment. Under moderate to severe disease pressure, for improved performance, increase rates or use TS601® in a program with other registered fungicides for seed treatment.

MIXING INSTRUCTIONS

MIXING: TS601® may be mixed with other registered pesticides to enhance seed germination. This product cannot be mixed with any product with prohibition against such mixing. When mixing TS601® with other registered pesticides, always read and follow all use directions, restrictions, and precautions of both TS601® and the mix partner(s). Use of the resulting mix must be in accordance with the more restrictive label limitations and precautions. Do not exceed label dosage rates.

To mix when using with other chemical insecticide or fungicide seed treatments: first add the chemical insecticides or fungicides to the slurry mix with approximately 10% of the required water. Slowly add the TS601® to the slurry until a suspension is obtained. Add the remainder of the water and maintain continuous agitation. Do not store mixed slurries for more than 4 hours.

To mix when using only TS601® seed treatment: Add all of the required water to TS601® and mix until a suspension is obtained. Maintain continuous

agitation. Do not store mixed slurries for more than 4 hours.

COMPATIBILITY: Do not combine TS601® in the slurry with pesticides, or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective and non-injurious under your use conditions. To ensure compatibility of seed treatment combinations, evaluate them prior to use as follows: Using a suitable container, add proportional amounts of product to water. Add wettable powders first, followed by water dispersible granules, then by liquid flowables and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible. Test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application. TS601® is compatible with many commonly used pesticides but has not been fully evaluated with all of these.

See application rate tables for more detailed application instructions.

SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing seeds treated with this product shall be labeled with the following information:

- This seed has been treated with Methylobacterium populi strain NLS0089.
- Do not use for feed, food or oil purposes. Store away from feed and food stuffs.

User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

Soybean - Seed Treatment	
Suppression of Diseases Caused By	Rate (oz per 100 lbs. of seed)
<i>Fusarium</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp.	0.25 - 1

Peanut - Seed Treatment	
Suppression of Diseases Caused By	Rate (oz per 100 lbs. of seed)
<i>Fusarium</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp. <i>Sclerotinia</i> spp.	0.06 - 1

Cotton- Seed Treatment	
Cotton, Short Staple Cotton, Long Staple Cotton, Upland Cotton, Pima Cotton	
Suppression of Diseases Caused By	Rate (oz per 100 lbs. of seed)
<i>Fusarium</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp.	0.5 - 1

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a dry area inaccessible to children. Store in original container only. Keep container closed when not in use. Do not store at temperatures above 78°F (25°C).

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING:

For 2.5 gallon plastic containers - Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.



TS601™
Biological fungicide



See inside booklet for additional precautionary information, directions for use, storage and disposal, and Limited Warranty and Disclaimer.

ACTIVE INGREDIENT:

<i>Methylobacterium populi</i> strain NLS0089*	2.0%
OTHER INGREDIENTS	98.0%
TOTAL	100.0%

*Contains not less than 1x10⁹ CFU/g of product

KEEP OUT OF REACH OF CHILDREN CAUTION

Manufactured for:
NewLeaf Symbiotics, Inc.
1001 N. Warson Road
Suite 100
St. Louis, MO 63132

EPA Reg. No. 95699-1
EPA Est. No.: 102779-WI-1

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FIRST AID

IF INHALED

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF IN EYES

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

For information on this product (including general health concerns or pesticide incidents), call the National Pesticide Information Center (NPIC) at 1-800-858-7378 Monday-Friday, 8am-12pm Pacific Time (NPIC website: npic.orst.edu). For emergencies, call your local poison control center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

CAUTION: Harmful if inhaled. Avoid breathing spray mist. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicator and other handlers must wear:

- long-sleeved shirt and long pants
- protective eyewear
- waterproof or chemical resistant gloves
- shoes plus socks

Mixer/loaders and applicators (except treated seed baggers and bag sewers) must wear a minimum of NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; OR a NIOSH approved elastomeric particulate filter with any N, R or P filter; OR a NIOSH approved powered air-purifying respirator with an HE filter. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Treated seed baggers and bag sewers must wear:

- long-sleeved shirt and long pants
- protective eyewear
- waterproof or chemical resistant gloves
- shoes plus socks
- a NIOSH-approved particulate filtering facepiece respirator with any N,

R or P filter; OR a NIOSH approved elastomeric particulate filter with any N, R or P filter; OR a NIOSH approved powered air-purifying respirator with an HE filter. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR § 170.607 (d), (e), and (f)], the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS:

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: Do not discharge effluent containing this

product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product in sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the U.S. Environmental Protection Agency. Do not apply directly to water, or to areas where water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

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 requirements specific to your State or Tribe, consult the State or Tribal 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 requirement 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) and restricted-entry interval.

The requirements in this box only 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 the restricted-entry interval (REI) of 4 hours.**

EXCEPTION: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. For early entry into treated areas that is permitted under the Worker Protection Standard and that involves anything that has been treated, such as plants, soil or water, wear:

- coveralls
- waterproof or chemical resistant gloves
- shoes plus socks

PRODUCT INFORMATION

TS601® is a broad spectrum, preventative product for the suppression of listed plant diseases. When conditions are conducive to heavy disease pressure, use TS601® in a rotational program with other registered fungicides. Apply TS601® with spray equipment commonly used for making ground or aerial applications and irrigation systems commonly used for chemigation. Heavy rainfall or irrigation shortly after application may require retreatment.

TS601® is most effectively used in a preventive disease management program. For improved performance, use TS601® in a tank-mix or rotational program with other registered fungicides. When using TS601® alone, use a rate of 4 - 10 oz TS601® per acre. Increase the application rate of TS601® depending upon disease pressure. To enhance performance, consider adding a surfactant, known to be safe to the target crop, to the spray tank to improve

penetration and coverage of above ground portions of the plant.

FUNGICIDE RESISTANCE MANAGEMENT AND INTEGRATED PEST MANAGEMENT (IPM)

Integrate TS601 into an overall disease and pest management strategy whenever fungicide use is necessary. Follow practices known to reduce disease development. Consult local agricultural authorities for specific IPM strategies developed for your crop(s) and location.

Be sure use of this product conforms to resistance management strategies, which may include rotating and/or mixing with other products with different modes of action.

USE RATE DETERMINATION

Carefully read and follow all label directions, use rates and restrictions. Application of TS601 prior to or in the early stages of disease development provides the best suppression of targeted plant disease. Use maximum label rates for conditions conducive to threatening or rapid disease development. Prepare only the amount of spray solution required to treat the measured acreage. Accurate spray equipment calibration is essential prior to use.

PREHARVEST INTERVAL

TS601 can be applied up to an on the day of harvest.

