

# Subtilex® NG

## Biological Fungicide

Intended for Use in Agricultural Settings – In-Furrow Treatment



**Active Ingredient:**

*Bacillus amyloliquefaciens* strain MBI 600\*† ..... 11.0%

**Other Ingredients:** ..... 89.0%

**Total:** ..... 100.0%

\* **Subtilex NG Biological Fungicide** contains a minimum of 5.5 x 10<sup>10</sup> colony forming units (CFU) per gram

† Formerly named *Bacillus subtilis* strain MBI 600

EPA Reg. No. 71840-8

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside for complete **First Aid, Precautionary Statements, Directions For Use,** and **Conditions of Sale and Warranty.**

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

**Batch Code:** [Located on physical container]

**Net Weight:**

BASF Corporation  
26 Davis Drive, Research Triangle Park, NC 27709

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

## **Precautionary Statements**

### **Hazards to Humans and Domestic Animals**

**CAUTION.** 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.

### **Personal Protective Equipment (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear

Mixers/loaders and applicators must wear a NIOSH-approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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

## **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. As soon as possible, wash thoroughly and change into clean clothing.

### **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 disposing of equipment washwater or rinsate.

### **In Case of Emergency**

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

## **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 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) and restricted-entry interval (REI). 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 **12 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.

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 plants, soil, or water) is:

- Coveralls
- Chemical-resistant gloves (made of any waterproof material)
- Shoes plus socks
- Protective eyewear

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## Product Information

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**Subtalex® NG Biological Fungicide** contains bacteria that colonize developing root and shoot systems of plants, preventing, controlling, or suppressing by competition disease organisms such as *Botrytis*, *Fusarium*, *Rhizoctonia*, and *Pythium*, as well as those organisms causing powdery mildew and anthracnose. Protection against root and soil borne pathogens is extended throughout the growing season as the bacteria grow with the roots. As a result of this biological protection, vigorous root and shoot systems are established by treated plants, resulting in more uniform stands and greater yields.

In addition, **Subtalex NG Biological Fungicide** has been shown to increase the amount of nodulation by nitrogen-fixing bacteria when used on many legumes. This improvement in nodulation is a result of a healthier root system, allowing more sites for nodules to form from nitrogen-fixing bacteria added to or already present in the soil.

**Subtalex NG Biological Fungicide** is for use in-furrow, in soil or growing media, and for foliar applications to field crops. Apply **Subtalex NG Biological Fungicide** using conventional application equipment as well as irrigation systems commonly used for chemigation.

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## Application Instructions

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### **FOR USE AS AN IN-FURROW TREATMENT**

Apply **Subtalex NG Biological Fungicide** as a water-based suspension alone, or with other in-furrow products (fungicides, insecticides, nematicides, fertilizers, etc.), via standard agricultural application machinery. Additionally, *Rhizobium* inoculant products such as BASF's **HiStick® L Liquid Rhizobium Inoculant** can be added to the tank mix. Prior to mixing, determine physical compatibility by mixing proportional quantities of the products in water.

To mix, first add the other in-furrow products to the mix tank with approximately ½ of the required water. While stirring, slowly add the **Subtalex NG Biological Fungicide** to the slurry until a uniform suspension is obtained. Add the remainder of the required water and maintain continuous agitation. Apply **Subtalex NG Biological Fungicide** in 5 – 20 gallons (19-76 L) of water per acre. **DO NOT** store mixed slurries for longer than 72 hours.

**DO NOT** mix **Subtalex NG Biological Fungicide** with any other in-furrow products containing a label prohibition against such mixing. When tank mixing **Subtalex NG Biological Fungicide** with any other registered in-furrow products (fungicides, insecticides, nematicides, fertilizers, etc.), observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. **DO NOT** exceed label application dosage rates.

**ATTENTION:** If *Rhizobium* inoculants are to be used in the tank mix with other in-furrow products (fungicides, insecticides, nematicides, fertilizers, etc.), make sure that they are compatible (not harmful) to the *Rhizobium*. Likewise, use only chlorine-free water in the tank mix. Because some of the ingredients in **Subtalex NG Biological Fungicide** may be insoluble, provide adequate agitation during the entire time the tank mix is being applied. If one or more products are not compatible (harmful), mix those products in and apply them from a separate mix tank.

### **PEANUTS, COTTON, POD VEGETABLES, SOYBEANS AND CORN**

(Reference Table 1). Apply **Subtalex NG Biological Fungicide** at 0.05-0.50 oz/acre (3.5 – 35.0 g/ha) following the application procedures listed above. Use the high end of the stated range when severe disease pressure is anticipated.

## Uses and Application Rates for Selected Crops

**Table 1: Field Crops**

Crop	Use	Diseases	Rates
<b>Agronomic Row or Other Field Crops:</b> Cotton, Pod Vegetables, Soybeans, Corn, and Peanuts	In-furrow	<i>Rhizoctonia</i> spp., <i>Pythium</i> spp., and <i>Fusarium</i> spp.	0.05-0.50 oz/acre 3.5-35 g/ha Apply <b>Subtilex® NG Biological Fungicide</b> in 5 – 20 gallons (19-76 L) of water per acre.

### **STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food, or feed by storage or disposal.

#### **Pesticide Storage**

Store in a cool, dry place until used. **DO NOT** store this product near food, feed, seed, fertilizers, or other pesticides.

#### **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**

**Nonrefillable Container. DO NOT** reuse or refill this container. Clean container promptly after emptying.

**Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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.

## Conditions of Sale and 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 or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** that may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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