Bacillus subtilis strain BU1814 *Bacillus amyloliquefaciens* strain MBI 600	Group	44	Fungicide

BASF
We create chemistry

Velondis™ Plus

Biofungicide

For commercial and on-farm use

In-furrow or seed treatment for disease suppression in selected crops

Active Ingredients:	
Bacillus subtilis strain BU1814*	1.706%
Bacillus amyloliquefaciens strain MBI 600**	3.132%
Other Ingredients:	95.162%
Total:	100.000%

* Contains a minimum of 1.4 x 10^9 colony forming units per mL
** Contains a minimum of 1.4 x 10^{10} colony forming units per mL

EPA Reg. No. 71840-26 **EPA Est. No.**

KEEP OUT OF REACH OF CHILDREN

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**.

You may contact BASF for emergency medical treatment information at 1-800-832-HELP (4357).

Net Contents:

Batch Code: Located on physical container

BASF Agricultural Solutions US LLC
2 TW Alexander Drive
Research Triangle Park, NC 27713

FIRST AID
HOTLINE NUMBER
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 Agricultural Solutions US LLC (hereafter "BASF") for emergency medical treatment information at 1-800-832-HELP (4357).

Precautionary Statements

Personal Protective Equipment (PPE)

The PPE requirements below apply to both Worker Protection Standard (WPS) uses (in general, agricultural-plant uses are covered by the Worker Protection Standard (40 CFR Part 170)) and Non-WPS uses.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Mixer/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposures 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 or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d) and (e)], 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 breakdown.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- 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

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.

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. 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
- Waterproof gloves
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treatment area until seeds have dried or been packaged.

STORAGE AND DISPOSAL

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

Pesticide Storage

Ensure container closures are tight. Store in a cool, dry place.

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. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Add water - at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of 1/4 of the container volume, and recap. Shake for 30 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. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer or contact the Ag Container Recycling Council at 1-877-952-2272 or www.acrecycle.org. Alternatively, 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.

In Case of Emergency

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

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

Product Information

Velondis™ Plus biofungicide is a product that includes:

- Biofungicide active ingredient, *Bacillus subtilis* strain BU1814, that inhibits seedling and root pathogens, such as *Fusarium* spp., *Rhizoctonia solani*, and *Bipolaris sorokiniana*

Bacillus subtilis strain BU1814 rapidly colonizes germinating seeds and the developing root system. The same bacteria quickly produce a beneficial biofilm and antimicrobial components promoting Induced Systemic Resistance (ISR) within the plant. This results in suppression of disease organisms that attack such root systems (e.g., *Fusarium* spp., *Rhizoctonia solani*, and *Bipolaris sorokiniana*).

- Biofungicide active ingredient, *Bacillus amyloliquefaciens* strain MBI 600, that inhibits seedling and root pathogens, such as *Fusarium* spp., *Rhizoctonia* spp., and *Pythium ultimum*

Bacillus amyloliquefaciens strain MBI 600 initially colonizes germinating seeds. The same bacteria then colonize the developing root systems of plants and suppress disease organisms that attack such root systems (e.g., *Fusarium* spp., *Rhizoctonia* spp., and, under some conditions, *Pythium ultimum*).

When combined as **Velondis Plus**, the differential modes of action of the two biological actives can contribute to complementary activity with certain chemical seed treatments, resulting in increased and more uniform field performance. Both biofungicide active components grow along the developing root system, and can extend the window of disease protection longer into the growing season. The plants produce a more vigorous root system, which often results in more uniform stands, overall improved plant growth and greater yield potential. In addition, **Velondis Plus** has been shown to increase root nodulation by nitrogen-fixing bacteria when used on legumes. This increase in nodulation is a result of a healthier root system allowing formation of more sites for nitrogen-fixing nodules.

Application Instructions

Velondis™ Plus biofungicide can be used in commercial seed treatment facilities and on-farm. **DO NOT** use for applications at hopper box and planter box. For use with commercial treatment application equipment only.

Mixing Instructions: Apply **Velondis Plus** as a water-based slurry alone or with other seed treatment products (fungicides, insecticides, nematicides, fertilizers, and rhizobial inoculants). **DO NOT** mix **Velondis Plus** with any copper-based products.

Prior to mixing, determine physical compatibility by mixing proportional quantities of the products in water. **DO NOT** mix **Velondis Plus** with any other seed treatment product that bears a label prohibition against such mixing. When tank mixing **Velondis Plus** with any other seed treatment product, observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

ATTENTION: Use only cool, chlorine-free water in the tank mix. If one or more treatments are not physically compatible (harmful), mix those products in, and apply them from, a separate mix tank.

To mix, first add the other seed treatment product(s) to the mix tank with approximately 1/2 of the required water. Slowly add **Velondis Plus** to the slurry until a uniform suspension is obtained. Add the remainder of the water while maintaining constant agitation. **DO NOT** store mixed slurries for longer than 24 hours.

Some ingredients in **Velondis Plus** may not completely solubilize; therefore, it is important to maintain a uniform suspension by continuously agitating the solution throughout the application process. **DO NOT** exceed label application dosage rates.

Because smaller seed has a greater surface area to volume ratio than larger seed, the average size of the seed being treated influences the application rate. For each crop listed in the **Crop Specific Directions** table, apply **Velondis Plus** at rates from the higher end of the specified application rate range when treating smaller seed. Additionally, use the higher end of the specified application range when treated seed is to be planted in fields that historically experience severe disease pressure.

For Use as an In-Furrow Treatment

Mixing Instructions: Apply **Velondis Plus** as a water-based slurry alone, or with other in-furrow products (fungicides, insecticides, nematicides, fertilizers, etc.). Additionally, rhizobial inoculant products, such as BASF's **Vault® Liquid Peanut Rhizobial Inoculant**, can be added to the tank mix.

Prior to mixing, determine physical compatibility by mixing proportional quantities of the products in water. **DO NOT** mix **Velondis Plus** with any other in-furrow product that bears a label prohibition against such mixing. When tank mixing **Velondis Plus** with any other in-furrow product, observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

ATTENTION: If rhizobial inoculants are to be used in the tank mix with other in-furrow treatments (fungicides, insecticides, nematicides, fertilizers, etc.), make sure that they are compatible (not harmful) to the rhizobia. Likewise, use only cool, chlorine-free water in the tank mix. If one or more treatments are not compatible (harmful), mix those products in, and apply them from, a separate mix tank.

To mix, first add the other in-furrow product(s) and/or the rhizobial inoculant product(s) to the mix tank with approximately 1/2 of the required water. Slowly add **Velondis Plus** to the slurry until a uniform suspension is obtained. Add the remainder of the water while maintaining constant agitation. **DO NOT** store mixed slurries for longer than 24 hours.

Application Instructions: For preventative control and suppression of seed pathogens (e.g., *Alternaria* spp.) and plant root pathogens (e.g., *Rhizoctonia* spp. and *Fusarium* spp.), apply **Velondis Plus** in 2.5 to 20 gal (9 to 76 L) of water per acre via standard agricultural application machinery. Some ingredients in **Velondis Plus** may not completely solubilize; therefore, it is important to maintain a uniform suspension by continuously agitating the solution throughout the application process. **DO NOT** exceed label application dosage rates. **Velondis Plus** must be covered with soil immediately after application. The unit of **Velondis Plus** will treat up to 10 acres in-furrow when appropriately diluted per the application instructions.

Peanuts - Vault Liquid Peanut Rhizobial Inoculant Plus Velondis Plus

Velondis Plus can also be used in conjunction with rhizobia-based inoculant products, such as BASF's **Vault Liquid Peanut Rhizobial Inoculant**. When used in combination with the **Vault Liquid Peanut Rhizobial Inoculant**, **Velondis Plus** provides the additional benefit of improving the nodulation of the roots by rhizobia bacteria in the **Vault Liquid Peanut Rhizobial Inoculant**.

The **Vault Liquid Peanut Rhizobial Inoculant** consists of one (1) plastic bladder containing 1.1 gallons.

The **Vault Liquid Peanut Rhizobial Inoculant** is co-packed in the same box with one (1) bottle containing 3.4 fl ozs of **Velondis Plus**.

One (1) **Vault Liquid Peanut Rhizobial Inoculant** and one (1) bottle containing 3.4 fl ozs of **Velondis Plus** are designed be used together to treat approximately 10 acres of peanuts.

Note that **Velondis Plus** is designed to work with the **Vault Liquid Peanut Rhizobial Inoculant**. Furthermore, the **Vault Liquid Peanut Rhizobial Inoculant** does not affect the activity of **Velondis Plus**.

Mix the one (1) plastic bottle of **Velondis Plus** with the one (1) plastic bladder of **Vault Liquid Peanut Rhizobial Inoculant**, and an appropriate quantity of chlorine-free water. For more detailed mixing instructions see directions on the outside panel of the **Vault Liquid Peanut Rhizobial Inoculant Plus Velondis Plus** co-pack box.

Crop Specific Directions

Crop	Target Diseases	Velondis™ Plus biofungicide Use Rate per Application
Root and Tuber Vegetables **Beet, sugar** **Beet, garden** **Burdock, edible** **Carrot** **Celeriac** (celery root) **Chervil, turnip-rooted** **Chicory** **Ginseng** **Horseradish** **Parsley, turnip-rooted** **Parsnip** **Radish** **Radish, oriental** (daikon) **Rutabaga** **Salsify** (oyster plant) **Salsify, black** **Salsify, Spanish** **Skirret** **Turnip** **Arracacha** **Arrowroot** **Artichoke, Chinese** **Artichoke, Jerusalem** **Canna, edible** (Queensland arrowroot) **Cassava, bitter and sweet** **Chayote** (root) **Chufa** **Dasheen** (taro) **Ginger** **Leren** **Potato** **Sweet potato** **Tanier** (cocoyam) **Turmeric** **Yam bean** (jicama, manoic pea) **Yam, true**	*Fusarium* spp. *Rhizoctonia solani* *Pythium ultimum*	0.0001-10.0 fl ozs per 100 lbs of seed 0.003-300 mL per 45.4 kg of seed

(continued)

Crop Specific Directions *(continued)*

Crop	Target Diseases	Velondis™ Plus biofungicide Use Rate per Application
Legume Vegetables **Bean** (*Phaseolus* spp.) **Bean** (*Vigna* spp.) **Jackbean** **Pea** (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea) **Pigeon pea** **Soybean** (immature seed) **Soybean** **Sword bean** **Broad bean** (fava bean) **Bean** (*Lupinus* spp.) **Chickpea** (garbanzo bean) **Guar** **Lablab bean** (hyacinth bean) **Lentil**	*Fusarium* spp. *Rhizoctonia solani* *Pythium ultimum*	0.01-1.00 fl oz per 100 lbs of seed 0.3-30 mL per 45.4 kg of seed
Cereal Grains **Barley** **Buckwheat** **Millet, pearl** **Millet, proso** **Oats** **Rice** **Rye** **Sorghum** (milo) **Teosinte** **Triticale** (Triticum-Secale hybrids) **Wheat** **Wild rice**	*Fusarium* spp. *Rhizoctonia solani* *Bipolaris sorokiniana* *Pythium ultimum*	0.01-10.00 fl ozs per 100 lbs of seed 0.30-300 mL per 45.4 kg of seed

(continued)

Crop Specific Directions *(continued)*

Crop	Target Diseases	Velondis™ Plus biofungicide Use Rate per Application
Oilseed Group except Rapeseed **Borage** **Calendula** **Castor oil plant** **Chinese tallowtree** **Cottonseed** **Crambe** **Cuphea** **Echium** **Euphorbia** **Evening primrose** **Flax seed** **Gold of pleasure** **Hare's ear mustard** **Jojoba** **Lesquerella** **Lunaria** **Meadowfoam** **Milkweed** **Mustard seed** **Niger seed** **Oil radish** **Poppy seed** **Rose hip** **Safflower** **Sesame** **Stokes aster** **Sunflower** **Sweet rocket** **Tallowwood** **Tea oil plant** **Vernonia**	*Fusarium* spp. *Rhizoctonia solani* *Pythium ultimum*	0.07-27.00 fl ozs per 100 lbs of seed 2.07-800 mL per 45.4 kg of seed
Rapeseed	*Fusarium* spp. *Rhizoctonia solani* *Pythium ultimum*	2.40 fl ozs per 100 lbs of seed 71.0 mL per 45.4 kg of seed
Peanut	*Fusarium* spp. *Rhizoctonia solani* *Pythium ultimum*	0.01-0.03 fl oz per 100 lbs of seed 0.3-0.9 mL per 45.4 kg of seed

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 the presence of other or untested or unapproved materials, seed of low quality or low vigor or low germination, use of the product in a manner inconsistent with its labeling, misapplication of this product, or weather conditions at planting or environmental conditions during seed storage, all of which are beyond the control of BASF Agricultural Solutions US LLC ("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 THIS 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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We create chemistry