



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

71840-26

Date of Issuance:

12/20/2017

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Velondis Plus

Name and Address of Registrant (include ZIP Code):

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

ShaRon Carlisle, Chief  
Microbial Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)  
Office of Pesticide Programs

Date:

12/20/2017

2. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to the EPA.
3. Make the following labeling change before you release this product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 71840-26."
4. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 10/06/2017

Any CSFs other than that listed above are superseded.

If you have any questions, please contact Cody Kendrick of my branch by phone at (703) 347-0468 or via email at [kendrick.cody@epa.gov](mailto:kendrick.cody@epa.gov).

Sincerely,



ShaRon Carlisle, Chief  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure



We create chemistry

Group 44 Fungicide

# Velondis™ Plus

{Optional Descriptor: biofungicide}

**For commercial and on-farm use**

**Seed treatment for disease suppression in selected crops**

**Active Ingredients:**

<i>Bacillus subtilis</i> strain BU1814*	1.706%
<i>Bacillus amyloliquefaciens</i> strain MBI 600**	3.132%
<b>Other Ingredients:</b>	<u>95.162%</u>
<b>Total:</b>	100.000%

\*Velondis™ Plus contains a minimum of 1.4 x 10<sup>9</sup> colony forming units per mL

\*\*Velondis™ Plus contains a minimum of 1.4 x 10<sup>10</sup> colony forming units per mL

**EPA Reg. No. 71840-EA      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.)

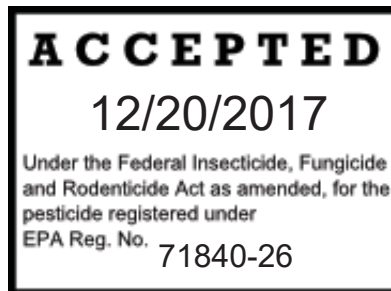
See inside for complete **First Aid, Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.**

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

**Net Contents:**

**Batch Code: Located on physical container**

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



Not for sale or use after [date stamped is 6 months after the date of manufacture]

## 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 Corporation 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

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/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 170.240(d)(4-5)], 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

*{Environmental hazards statements for container sizes less than 5 gallons.}*

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.

*{Environmental hazards statements for containers greater than or equal to 5 gallons.}*

**DO NOT** discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other 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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

## 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 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.

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

{For containers with capacities less than or equal to 5 gallons}

**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](http://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.

{For containers with capacities greater than 5 gallons}

**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. 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. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 60 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. 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](http://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 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)

### 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.

#### **Label statement required by the State of Oregon**

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.html>

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## **Application Instructions**

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**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 ½ 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.

## Crop Specific Directions

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

**Crop Specific Directions *continued***

<b>Crop</b>	<b>Target Diseases</b>	<b>Velondis™ Plus Use Rate per Application</b>
<p><b>Legume Vegetables</b>  <b>Bean</b> (<i>Phaseolus</i> spp.)  <b>Bean</b> (<i>Vigna</i> spp.)  <b>Jackbean</b>  <b>Pea</b> (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea)  <b>Pigeon pea</b>  <b>Soybean</b> (immature seed)  <b>Soybean</b>  <b>Sword bean</b>  <b>Broad bean</b> (fava bean)  <b>Bean</b> (<i>Lupinus</i> spp.)  <b>Chickpea</b> (garbanzo bean)  <b>Guar</b>  <b>Lablab bean</b> (hyacinth bean)  <b>Lentil</b></p>	<p><i>Fusarium</i> spp.   <i>Rhizoctonia solani</i>   <i>Pythium ultimum</i></p>	<p>0.01-1.00 fl oz per 100 lbs of seed  0.3-30 mL per 45.4 kg of seed</p>



**Crop Specific Directions** *continued*

<b>Crop</b>	<b>Target Diseases</b>	<b>Velondis™ Plus Use Rate per Application</b>
<b>Cereal Grains</b> <b>Barley</b> <b>Buckwheat</b> <b>Millet, pearl</b> <b>Millet, proso</b> <b>Oats</b> <b>Rice</b> <b>Rye</b> <b>Sorghum (milo)</b> <b>Teosinte</b> <b>Triticale</b> (Triticum-Secale hybrids) <b>Wheat</b> <b>Wild rice</b>	<i>Fusarium</i> spp.  <i>Rhizoctonia solani</i>  <i>Bipolaris sorokiniana</i>  <i>Pythium ultimum</i>	0.01-10.00 fl oz per 100 lbs of seed 0.30-300 mL per 45.4 kg of seed

**Crop Specific Directions** *continued*

Crop	Target Diseases	Velondis™ Plus Use Rate per Application
<p><b>Oilseed Group except Rapeseed</b></p> <p>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</p>	<p><i>Fusarium</i> spp.   <i>Rhizoctonia solani</i>   <i>Pythium ultimum</i></p>	<p>0.07-27.00 fl oz per 100 lbs of seed            2.07-800 mL per 45.4 kg of seed</p>
<p><b>Rapeseed</b></p>	<p><i>Fusarium</i> spp.   <i>Rhizoctonia solani</i>   <i>Pythium ultimum</i></p>	<p>2.40 fl oz per 100 lbs of seed            71.0 mL per 45.4 kg of seed</p>

**Crop Specific Directions** *continued*

<b>Crop</b>	<b>Target Diseases</b>	<b>Velondis™ Plus Use Rate per Application</b>
<b>Peanut</b>	<i>Fusarium</i> spp. <i>Rhizoctonia solani</i> <i>Pythium ultimum</i>	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 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 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.

*Velondis is a trademark of BASF.*

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