

TWO.O SPECIMEN

Seed Treatment Soil Amendment

TWO.O is intended for use as a seed treatment to enhance the microbial activity within the plant root rhizosphere on canola, corn (field corn and field corn grown for seed), popcorn & sweet corn, and soybean.

FOR COMMERCIAL USE ONLY Keep Out of Reach of Children

CONTAINS NONPLANT FOOD INGREDIENTS GUARANTEED ANALYSIS

Soil Amending Ingredient:	
Active Ingredient:	
Microorganism:	1.00%
<i>Bacillus thuringiensis</i> strain EX297512	5x10 ⁴ cfu/mL*
Total Other (Inert) Ingredients:	99.00%
(Water-based culture medium, Preservative, Antifoam, Thickener, Stabilizer)	
Total:	100.00%

*colony forming units/milliliter

This product does not require a hazard warning in accordance with GHS criteria.

(F002177)

Net Contents: 30 Gallons (113.5 Liters)

Net Weight: 260 Pounds

Product expires one year from date of manufacture.

81139857 - 2XLB007103 - NVA 2023-05-0614-0557

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709



Product Information

- Is intended for use as a seed treatment to enhance the microbial activity within the plant root rhizosphere.
- Is labeled for use on Canola, Corn (field corn and field corn grown for seed), Popcorn & Sweet Corn and Soybean.
- May be used in combination with other registered BASF seed treatment fungicides and insecticides. Pre-test for compatibility with other seed treatment products.

Use Restrictions

- For use only in commercial seed treatment equipment. Not for use in hopper box, planter box, slurry box, or other on-farm seed treatment applications.
- Read the entire label before using this product. **DO NOT** use this product except as directed on this label for this product.
- For use only as described on the labeling. Not for isolation or deformation. **DO NOT** culture unless approved in advance by BASF in writing.

Hazard Statements

- Harmful if swallowed.
- Avoid contact with eyes or clothing.

Precautionary Statements

- Minimum PPE recommended: long sleeve shirt, long pants, shoes plus socks and water proof gloves. Other products used concurrently with this product in treating seed may require more stringent PPE.
- If exposed or concerned, seek medical advice.

Environmental Statement

For terrestrial uses: **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. **DO NOT** contaminate water when disposing of equipment wash water or rinsate.

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

Directions For Use

Application Instructions

- Uniform application to seed is necessary to ensure seed safety and product efficacy.
- Use high quality, properly cleaned seed.
- This product does not contain dye. All seed treated commercially with this product must be colored with an EPA-approved dye or colorant of a suitable color to prevent accidental use as food for man or feed for animals.

Compatibility

It is essential that before using **TWO.O Seed Treatment Soil Amendment** in any tank mixture the compatibility of the mixture be established. Add **TWO.O** at the labeled rate to a clean quart jar containing approximately one-half the amount of water intended for a final slurry application rate. Next, follow with all other tank mix components that will be used in the total slurry application. Add last the remaining balance of water. The total amount of volume is determined by the seed size and how much is necessary to ensure complete and uniform coverage and distribution on the seed, as well as the type of commercial seed treating application equipment that will be used.

DO NOT USE MIXTURES THAT CURDLE, PRECIPITATE, OR GEL. USE TANK MIXTURES IMMEDIATELY AFTER MIXING WITH ADEQUATE AGITATION.

Mixing Instructions

When applied with seed treatment application equipment designed to treat seed utilizing a treatment slurry mixture, add approximately 1/2 to 2/3 of the required water to the treatment slurry tank followed by the accompanying seed treatment products and **TWO.O**. The order of product addition is dependent on the accompanying seed treatment products and application equipment used. Allow each slurry component to disperse completely prior to the next addition until a uniform suspension is obtained. After all slurry components have been added and dispersed completely add the remaining 1/2 to 1/3 of required water for proper slurry volume and mix until uniform. **DO NOT** store mixed slurries for greater than 72 hours. Maintain adequate agitation until treatment slurry is applied. For additional instructions for use, slurry component mixing order, and other application suggestions contact your BASF representative.

Crop-specific Directions

Crop	# Seeds/kg (# Seeds/lb)	mL/100 kg seed (fl ozs/100 lb seed)	mL/seed count (fl ozs/seed count)	Crop-specific Information
Canola	NA	100 to 500 mL/100 kg (1.54 to 7.68 fl ozs/100 lb)	NA	NA
Corn	3,706/kg (1,681/lb)	370.6 to 426.2 mL/100 kg (5.67 to 6.51 fl ozs/100 lb)	80 to 92 mL/ 80,000 seed count (2.70 to 3.10 fl ozs/ 80,000 seed count)	Rate is calculated based on number of seeds/kg averages of corn (3,706) Average seed 1,681 - seed range per pound (1,361 to 2,000)
Popcorn	6,748/kg (3,061/lb)	674.8 to 776.6 mL/100 kg (10.33 to 11.86 fl ozs/100 lb)	80 to 92 mL/ 80,000 seed count (2.70 to 3.10 fl ozs/ 80,000 seed count)	Rate is calculated based on number of seeds/kg averages of corn (6,748) Average seed 3,061 - seed range per pound (1,361 to 4,760)
Sweet Corn	6,943/kg (3,150/lb)	694.3 to 798.4 mL/100 kg (10.63 to 12.21 fl ozs/100 lb)	80 to 92 mL/ 80,000 seed count (2.70 to 3.10 fl ozs/ 80,000 seed count)	Rate is calculated based on number of seeds/kg averages of corn (6,943) Average seed 3,150 - seed range per pound (1,800 to 4,500)
Soybean	5,622/kg (2,550/lb)	28 to 177 mL/100 kg (0.43 to 2.70 fl ozs/100 lb)	7 to 44 mL/ 140,000 seed count (0.25 to 1.5 fl ozs/ 140,000 seed count)	Rate is calculated based on number of seeds/kg averages of soybean (5,622) Average seed 2,550 - seed range per pound (1,500 to 3,600)

Storage and Disposal

Storage: Segregate from foods and animal feeds. Keep away from heat. Protect from direct sunlight. Protect from temperatures above 104°F (40°C).
Waste Disposal of Substance: Must be disposed of or incinerated in accordance with local regulations.
Container Disposal: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Accidental Release Measures: **DO NOT** discharge into the subsoil/soil. **DO NOT** discharge into drains/surface waters/groundwater. For small amounts: Pick up with suitable absorbent material. For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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

State Right To Know Description / CAS # or TSN

Bacillus thuringiensis / 68038-71-1; Proprietary Polyol / TSNR 161090809-5002; Sodium chloride / 7647-14-5

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. 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. **BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. 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. 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** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

LIMITATIONS OF USE: Any purchaser or user agrees to handle and/or use this product in strict conformity with all limitations of use, including the prohibition of analyzing for content, disassembling, extracting, purifying, or otherwise obtaining any material, for any use whatsoever, from the product in any form. This prohibition specifically includes the growing or culturing of any material for further use of such material (or any progeny thereof) for ANY use whatsoever. User agrees that this product will only be used as instructed on the product label and only for the crop and purpose stated therein.

© 2023 BASF Corporation
All rights reserved.

20230414. **NVA 2023-04-0614-0054**
Supersedes: NVA 2022-04-0614-0011