

2020-0188  
2021-02-25

**GROUP 44 FUNGICIDE/BACTERICIDE**

**TAEGRO 2™ BIOFUNGICIDE**  
For Agricultural, Outdoor, and Greenhouse Uses  
Live organism

**COMMERCIAL  
WETTABLE POWDER**

**ACTIVE INGREDIENT:** *Bacillus subtilis* var. *amyloliquefaciens* Strain FZB24.....1.0 x 10<sup>10</sup> colony forming units/g

**REGISTRATION NO: 31865 PEST CONTROL PRODUCTS ACT**

**CAUTION SKIN IRRITANT  
POTENTIAL SENSITIZER**

**Net Contents [100 g – 1000 g]**

Novozymes BioAg Limited  
3935 Thatcher Avenue  
Saskatoon, Saskatchewan, Canada  
S7R 1A3  
1-888-744-5662  
[Distributed by XXX]  
[Insert Logo]

Manufactured: dd-mm-year  
Batch Code/Expiry Date: XXXX/dd-mm-year

**READ THE LABEL BEFORE USING**

**PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN. May cause sensitization. Keep away from food, drink and animal feed.

May irritate the skin. Avoid contact with the skin and clothing. Avoid breathing dust.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes and socks, eye goggles, and a dust-mist filtering respirator/mask (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator/mask with any N-95, R-95, P-95 or HE filter. Wash thoroughly with soap and water after handling. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENVIRONMENTAL PRECAUTIONS:** To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body. For guidance contact the Provincial Regulatory Agency.

**FIRST AID:**

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control centre or doctor for treatment advice.

**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 centre or doctor for 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 centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

## DIRECTIONS FOR USE

**GENERAL:** TAEGR0 2 is a bacterial based biofungicide/bactericide used for suppression or partial suppression of selected soil-borne and foliar diseases on agricultural and ornamental crops grown outdoor or in greenhouses, shadehouses, or other covered structures as listed on the following pages. TAEGR0 2 is most effective in low to medium disease pressure situations and should be applied prior to disease or at disease establishment so suppression action is maximized.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

### APPLICATION AND MIXING INSTRUCTIONS:

**Re-entry interval: 0 hours**

**Pre-harvest interval: 0 hours**

TAEGR0 2 must be pre-mixed thoroughly with water to assure a properly distributed suspension. The required amount of TAEGR0 2 should be added slowly into the spray tank during filling. With concentrate sprays, pre-mix the required amount of TAEGR0 2 in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations. If mix water pH is less than 5 or greater than 8, pH adjustment and buffering may improve suspension. Apply content of entire suspension within a few hours of mixing to ensure viability of TAEGR0 2.

### USE RECOMMENDATIONS:

When applied as directed, TAEGR0 2 will suppress the listed diseases, unless otherwise indicated as partial suppression.

<b>Crop Group 1: Root and tuber vegetables</b>		
Arrowroot, black salsify, carrot, celeriac (celery root), chicory, Chinese artichoke, chufa, dasheen (taro), edible burdock, garden beet, ginger, ginseng, horseradish, Jerusalem artichoke, oriental radish (daikon), parsnip, potato, radish, rutabaga, salsify, skirret, Spanish salsify, sugar beet, sweet potato, true yam, turnip, turnip-rooted chervil, turnip-rooted parsley.		
<b>Disease Suppressed</b>	<b>Rate (g/ha) and Application</b>	<b>Use Recommendations</b>
Damping-off and root rot	187.5-375 Drench	<ul style="list-style-type: none"><li>Mix 187.5-375g of Taegro 2 in at least 935 L of water to treat 1 hectare, continue applications at 7-day intervals when</li></ul>

<p>(<i>Rhizoctonia solani</i>, <i>Pythium</i> spp., <i>Fusarium oxysporum</i>, <i>Phytophthora</i> spp.)</p>		<p>conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</p> <ul style="list-style-type: none"> <li>• Apply at planting (seeded or transplanted) or immediately following through overhead sprinkler, drip injection (surface or buried), or in furrow soil spray at planting.</li> <li>• For sequential applications using overhead sprinkler, basal sprays or drip injection apply every 7-14 days as needed through the season. When using basal spray, incorporate by following with irrigation to soak root zone.</li> </ul> <p>Fields with historical disease problems may require a higher rate, more applications, and shorter application intervals for better efficacy.</p>
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<b>Wheat</b>		
<b>Disease Suppressed</b>	<b>Rate (g/ha) and Application</b>	<b>Use Recommendations</b>
<p>Fusarium head blight (<i>Fusarium graminearum</i>) (Partial suppression)</p>	<p>256  Foliar</p>	<p>Apply TAEGR0 2 to wheat at early flowering. Mix 256 grams of TAEGR0 2 in at least 187 L of water to treat 1 hectare. Follow the general mixing instructions in this booklet to ensure a properly distributed suspension. Follow spray equipment manufacturer's instructions to obtain adequate coverage with minimal plant runoff. Continue applications at 7-day intervals when conditions are conducive to disease development. TAEGR0 2 must be used in conjunction with IPM practices in order to adequately manage mycotoxin levels in wheat kernels.</p>

<b>Lettuce</b>		
<b>Disease Suppressed</b>	<b>Rate (g/ha) and Application</b>	<b>Use Recommendations</b>
<p>Lettuce drop (<i>Sclerotinia sclerotiorum</i>, <i>Sclerotinia minor</i>)</p>	<p>187.5-375  Soil plus foliar</p>	<ul style="list-style-type: none"> <li>• Mix 187.5-375g of Taegro 2 in at least 187 L of water to treat 1 hectare. Continue applications when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease</li> </ul>

		<p>pressure.</p> <p>The first application should be made at planting or transplanting. Apply in-furrow or basal spray to make sure the application is to the root zone. When using basal sprays incorporate by following with irrigation to soak the root zone. Sequential applications should initiate at lettuce thinning and continuing every 7-14 days depending on disease pressure.</p> <ul style="list-style-type: none"> <li>• For optimum suppression of <i>S. minor</i>, Taegro 2 should be applied to the root zone.</li> <li>• A combination of applications for <i>S. sclerotiorum</i> suppression should be soil surface applications and foliar applications at infestation sites (dead or dying tissue) for optimum suppression.</li> </ul> <p>Fields with historical disease problems may require a higher rate, more applications, and shorter application intervals for better efficacy.</p>
Downy mildew ( <i>Bremia lactucae</i> ) (Partial suppression)	187.5-375  Foliar	<ul style="list-style-type: none"> <li>• Start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation with other registered fungicides.</li> <li>• Higher rate is recommended under conditions of moderate to high disease pressure.</li> <li>• Apply enough spray solution for thorough coverage.</li> </ul>
Bottom rot ( <i>Rhizoctonia solani</i> )	187.5  Drench	<p>Application directed to plant base: Mix 187.5 grams of TAEGRO 2 in at least 935 L of water to treat 1 hectare. Apply at planting (seeded or transplanted) or immediately following, through overhead sprinkler, drip injection (surface or buried), in furrow soil spray or with liquid fertilizer at planting. Follow the general mixing instructions in this booklet to ensure a properly distributed suspension. Applications should be made to the plant base and soil/growing medium surface to protect the contact between the soil/growing medium and leaf tissue as the lettuce develops. Continue applications at 7-day intervals when conditions are conducive to disease development. Water-in TAEGRO 2 immediately after application.</p>

Tomato, peppers		
Disease Suppressed	Rate (g/ha) and Application	Use Recommendations
Damping-off and root rot  <i>(Rhizoctonia solani, Pythium spp., Fusarium oxysporum, Phytophthora spp.)</i>	187.5-375  Drench	<ul style="list-style-type: none"> <li>Mix 187.5-375g of Taegro 2 in at least 935 L of water to treat 1 hectare. Continue applications at 7- day intervals when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</li> <li>For soil disease applications, apply as drench on transplants prior to planting.</li> <li>Apply with liquid fertilizer or as an in-furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</li> <li>Follow with drip injection or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> </ul> Fields with historical disease problems may require more applications and shorter application intervals for better efficacy

Tomato (greenhouse and field)		
Disease Suppressed	Rate (g/ha) and Application	Use Recommendations
Powdery mildew <i>(Leveillula taurica, Oidium neolycopersici)</i> (Partial suppression) Early blight <i>(Alternaria solani)</i> (Partial suppression)  Bacterial speck <i>(Pseudomonas syringae pv. tomato)</i> (Partial suppression)  Bacterial spot <i>(Xanthomonas campestris)</i> (Partial suppression)	187.5-375  Foliar	<ul style="list-style-type: none"> <li>Mix 187.5-375g of Taegro 2 in at least 187 L of water to treat 1 hectare. Higher rate is recommended under conditions of moderate to high disease pressure. Start foliar disease applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides. Established or heavier disease pressure may require switching to rotations or to chemical fungicides.</li> <li>Apply enough spray solution for thorough coverage.</li> </ul>

Late blight ( <i>Phytophthora infestans</i> )	375  Foliar	Mix 375 grams of TAEGRO 2 in at least 935 L of water to treat 1 hectare. Follow the general mixing instructions in this booklet to ensure a properly distributed suspension. Apply after emergence as a foliar spray. Continue applications at 7-day intervals when conditions are conducive to disease development.
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**Crop Group 9: Cucurbits:**

Chinese waxgourd, citron melon, cucumbers, gherkin, edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), *Momordica* spp (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), pumpkin, squash (includes acorn squash, butternut squash, calabaza, crookneck squash, hubbard squash, scallop squash, spaghetti squash, straightneck squash, vegetable marrow, zucchini), watermelon.

Disease Suppressed	Rate (g/ha) and Application	Use Recommendations
Damping-off and root rot ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp., <i>Fusarium oxysporum</i> , <i>Phytophthora</i> spp.)	187.5-375  Drench	<ul style="list-style-type: none"> <li>Mix 187.5-375g of Taegro 2 in at least 935 L of water to treat 1 hectare. Continue applications at 7- day intervals when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</li> <li>For soil disease applications, apply as drench on transplants prior to planting.</li> <li>Apply with liquid fertilizer or as an in-furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</li> <li>Follow with drip injection or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>Fields with historical disease problems may require more applications and shorter application interval for better efficacy</li> </ul>
Powdery mildew ( <i>Podosphaera xanthii</i> ) (Partial suppression)  Angular leaf spot ( <i>Pseudomonas syringae</i> )	187.5-375  Foliar	Mix 187.5-375g of Taegro 2 in at least 187 L of water to treat 1 hectare. Higher rate is recommended under conditions of moderate to high disease pressure. Start foliar disease applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides. Established or

(Partial suppression)		heavier disease pressure may require switching to rotations or to chemical fungicides.
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<b>Ornamentals</b> Greenhouse and outdoor.		
<b>Disease Suppressed</b>	<b>Rate (g/ha) and Application</b>	<b>Use Recommendations</b>
Seedling damping-off ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp., <i>Fusarium oxysporum</i> , <i>Phytophthora</i> spp.)	187.5-375  Drench	<ul style="list-style-type: none"> <li>• Mix 187.5-375g of Taegro 2 in at least 935 L of water to treat 1 hectare. Continue applications at 7-day intervals when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</li> <li>• For soil disease applications, apply as drench on transplants prior to planting.</li> <li>• Apply with liquid fertilizer or as an in-furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</li> <li>• Follow with drip injection or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• Fields with historical disease problems may require more applications and shorter application interval for better efficacy</li> </ul>

<b>Cyclamen (greenhouse)</b>		
<b>Disease Suppressed</b>	<b>Rate and Application</b>	<b>Use Recommendations</b>
Fusarium wilt ( <i>Fusarium oxysporum f. sp. cyclamis</i> ) (Partial suppression)	20g/100L  Drench	<ul style="list-style-type: none"> <li>• Apply TAEGRO 2 to seedlings or to newly rooted cuttings. Drench plants with the TAEGRO 2 suspension making sure the root system is thoroughly soaked, allowing TAEGRO 2 to work into the root zone. Continue applications at 7-day intervals when conditions are conducive to disease development.</li> <li>• Follow the general mixing instructions in this booklet to ensure a properly distributed</li> </ul>



		suspension.
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<b>Crop Group 13-07: Berry and small fruit</b>		
Amur river grape, aronia berry, bayberry, bearberry, bilberry, blackberry, blueberry, buffalo currant, buffaloberry, Chilean guava, chokecherry, cloudberry, cranberry, currant (red and black), elderberry, European barberry, gooseberry, grape, highbush cranberry, honeysuckle (edible), huckleberry, jostaberry, juneberry (Sasktoon), kiwi (fuzzy and hardy), loganberry, maypop, mountain pepper berries, mulberry, muntries, native currant, partridgeberry, pincherry, raspberry (black and red), riberry, salal, schisandra berry, sea buckthorn, serviceberry, strawberry, wild raspberries.		
<b>Disease Suppressed</b>	<b>Rate (g/ha) and application</b>	<b>Use Recommendations</b>
Young plant damping-off ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp., <i>Fusarium oxysporum</i> , <i>Phytophthora</i> spp.)	187.5-375  Drench	<ul style="list-style-type: none"> <li>Mix 187.5-375g of Taegro 2 in at least 935 L of water to treat 1 hectare. Continue applications at 7-day intervals when conditions are conducive to disease development. Higher rate is recommended under conditions of moderate to high disease pressure.</li> <li>For soil disease applications, apply as drench on transplants prior to planting.</li> <li>Apply with liquid fertilizer or as an in-furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</li> <li>Follow with drip injection or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> </ul> <p>Fields with historical disease problems may require more applications and shorter application intervals for better efficacy</p>
Powdery mildew ( <i>Erysiphe necator</i> , <i>Podosphaera aphanis</i> )(grapes and strawberry)  Botrytis gray mould ( <i>Botrytis cinerea</i> )	187.5-375  Foliar	Mix 187.5-375g of Taegro 2 in at least 187 L of water to treat 1 hectare. Higher rate is recommended under conditions of moderate to high disease pressure. Start foliar disease applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides. Established or heavier disease pressure may require switching to rotations or to chemical fungicides.

**STORAGE:** Keep in original container during storage. Store product in a dry, well-ventilated place away from seed, feed, fertilizer or other pesticides. Keep away from direct sunlight, fire or open flame, or other source of heat.

TAEGRO 2 consists of living microbes. Store at temperatures between 4 °C and 25°C and use by the expiry date noted on the label. Do not freeze. Close opened packages tightly.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer or the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.