# TagTeam® BioniQ™
granular

*MultiAction*® legume fertility for

chickpea

**CONTAINS NONPLANT FOOD INGREDIENTS**

ACTIVE: 1.0 X $10^6$ cfu/g *Penicillium bilaiae*
1.0 X $10^8$ viable cfu/g *Mesorhizobium ciceri*
2.0 x $10^6$ viable cfu/g *Bacillus amyloliquefaciens*
4.7 x $10^5$ cfu/g *Trichoderma virens*

INERT: peat-based carrier

## How it Works

The active ingredients in TagTeam® BioniQ™ granular for chickpea are *Penicillium bilaiae*, *Trichoderma virens*, *Bacillus amyloliquefaciens* and *Mesorhizobium ciceri*. *Mesorhizobium ciceri* forms root nodules which convert atmospheric nitrogen into forms the plant can use. *Bacillus amyloliquefaciens* and *Trichoderma virens* can increase the availability and uptake of certain important plant nutrients. *Penicillium bilaiae* makes less-available residual soil phosphate available for crop use. TagTeam® BioniQ™ is not a fungicide and it will not replace your standard fungicide seed treatment.

## Directions for Use

**Shipping and stacking of TagTeam® BioniQ™ granular may cause some granules to become compacted. Loosen any compacted granules before using this product.**

**Screen granular product when filling tank or seed cart.**

TagTeam® BioniQ™ granular should be applied directly with the seed in the seed row using a granular tank for application. Application rates will vary according to row spacing; refer to Table 1 for details. Apply in-furrow only. Do not band. Do not mix TagTeam® BioniQ™ granular in the same tank with fertilizers, granular pesticides, or seed. TagTeam® BioniQ™ granular can be used with pesticide treated seed. Do not leave TagTeam® BioniQ™ granular in tank or seed cart overnight. Be sure to calibrate your equipment to deliver the correct amount of TagTeam® BioniQ™ granular per acre for your row spacing, refer to Table 1 for details. Under humid conditions, reduce the weight of TagTeam® BioniQ™ granular per tank and check flow on a regular basis.

Calibrate with 50 kg (22.7 lb) before adding more inoculant to the tank or seed cart. A maximum of 454 kg (1,000 lbs) per tank should be used.

- Before using, make sure the hopper, rotor, feed mechanism, and calibration equipment are free from chemical residue, fertilizer, and debris.
- Make sure that the tubing to the planting shoe is as straight and vertical as possible.
- If using an air seeder, ensure that the tank screen is clean when filling tank or seed cart. Follow calibration instructions supplied by the air cart manufacturer. Check flow regularly.
- If augering, please do so at low speeds to avoid damage to TagTeam® BioniQ™ granular.

**Table 1: Application rates for TagTeam® BioniQ™ granular inoculant for chickpea**

| Row spacing (cm)<br>Row spacing (in) | 15.2<br>(6.0) | 17.8<br>(7.0) | 20.3<br>(8.0) | 22.9<br>(9.0) | 25.4<br>(10.0) | 30.5<br>(12.0) | 38.1<br>(15.0) |
|---|---|---|---|---|---|---|---|
| Application rates (kg/ha)<br>Application rates (lb/ac) | 6.1<br>(5.5) | 5.3<br>(4.7) | 4.6<br>(4.1) | 4.0<br>(3.6) | 3.7<br>(3.3) | 3.1<br>(2.7) | 2.4<br>(2.2) |

Note: The bulk density for TagTeam® BioniQ™ granular is approximately 0.6 g/$cm^3$ (37 lb/$ft^3$).

## Special Considerations

Environmental conditions can change the flowability of TagTeam® BioniQ™ granular.

- Do not allow TagTeam® BioniQ™ granular to get wet or to dry out.
- In humid conditions, check and clean metering system regularly to ensure consistent flow.

## Applicators and Other Handlers

The active ingredients in TagTeam® BioniQ™ granular for chickpea are *Penicillium bilaiae and Trichoderma virens* spores, *Mesorhizobium ciceri* and *Bacillus amyloliquefaciens* viable cells. Eye or skin contact, inhalation, or ingestion should be avoided. Wear standard protective clothing and equipment including gloves and safety glasses. Ensure adequate ventilation. Where exposure through inhalation may occur, use respiratory protective equipment. This product contains microorganisms that may have the potential to provoke sensitizing reactions; use appropriate personal protective equipment (PPE) to reduce exposure. Sensitized individuals should wear a NIOSH-approved respirator. In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

## Storage and Disposal

The active ingredients in TagTeam® BioniQ™ granular inoculant are living organisms and require specific storage conditions to ensure viability and product performance.

To maintain product viability:

- Store bags under cool conditions < 20°C (68°F) away from sunlight and direct heat sources.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Use entire contents of bag after opening.
- Use before the expiration date. The expiration date is valid only for unopened bags stored under the conditions listed above.

Unused TagTeam® BioniQ™ granular should be disposed of in accordance with applicable Federal, state/provincial, and local requirements.

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

## Limited Warranty

The Seller warrants that this product contains a minimum number of *Penicillium bilaiae*, *Trichoderma virens*, *Mesorhizobium ciceri* and *Bacillus amyloliquefaciens* colony forming units as specified on this label. The Seller makes no other warranty expressed or implied as to product viability or performance since product storage, use and growing conditions are beyond the Seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition. If this product does not perform as warranted above, and to the extent consistent with applicable law, customer's sole remedy for breach of warranty shall be replacement of the product or refund of the purchase price paid, at the option of the Seller.

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**Net contents**
18 kg (39.7 lb)

novozymes®

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**Product of Canada**

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