

Bio-Shield[®] XT

with Hydrolock[®]

A BIO-PROTECTOR FOR EXTENDING THE VIABILITY OF VARIOUS BIOLOGICAL PRODUCTS LIKE TRILLUM[®] DS, WP (TRICHODERMA SPP.), MICROPHOS[®] (PSEUDOMONAS SPP.), NITRO-LIQ, RIZO-LIQ[®] AND SIGNUM[®] (LEGUME BACTERIAL INOCULANTS) ON SEEDS OR INFURROW APPLICATIONS.

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN

Active Ingredient / Aktiewe Bestanddeel:

Mixture of polysaccharides and proteins..... 65% (w/v)Mengsel van polisakkariede en proteïene
S.G (at 20°C): 1.26 ± 0.05

NOT CLASSIFIED AS HAZARDOUS IN TERMS OF GHS.

BIO-SHIELD[®] XT WAS DEVELOPED TO PERFORM THE FOLLOWING FUNCTIONS:

- Improve the tolerance of *Trichoderma* spp., *Pseudomonas* spp. and rhizobium bacteria to temperature and desiccation stress.
- Allow for close contact between the microorganisms and the plant root through enhanced adherence to seed.
- Aid growers in identifying treated seed.
- Increase pre-treatment time of various biologicals on seed. Please read the specific biological product label in conjunction with Bio-Shield[®] XT.

Net Volume:
62.5 ml



Registered, Marketed and Distributed by / Geregistreer, Bemerk en Versprei deur:

MBFi (PTY) LTD • Reg No.: 2015/165672/07

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IN CASE OF POISONING, CALL THE FOLLOWING EMERGENCY NUMBER / IN GEVAL VAN VERGIFTIGING, SKAKEL DIE VOLGENDE NOODNOMMER 082 446 8946 / 0861 555 777

Bio-Shield[®] - Part of the MBFi (PTY) LTD Nitrology[®] Technology Platform. / Bio-Shield[®] - Deel van die MBFi (PTY) LTD Nitrology[®] Tegnologieplatform.

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ZAR 002

- WARNINGS:**
- **GHS Hazard Statement:**

ZAR 002

Pictogram and Signal word	Hazard Statement
Not Classified as Hazardous	Not Classified as Hazardous

Although this adjuvant has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions. The active ingredient may be affected by factors such as storage conditions, quality of dilution water and compatibility with other substances not indicated on the label, as well as by the method, time and accuracy of the application. Furthermore, the registration holder does not accept responsibility for damage to crops, vegetation, the environment, or harm to man or animal, or lack of performance of the adjuvant concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

- PRECAUTIONS:**
- **GHS Precautionary Statements:**

P102	Keep out of reach of children.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P305 P351 P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P403	Store in a well-ventilated place.
P410	Protect from sunlight.
P411	Store at temperatures not exceeding 35°C.

IMPORTANT:
Proper application techniques help ensure thorough seed coverage and the correct dosage necessary to obtain optimum results. The whole inoculation procedure must be carried out away from direct sunlight. Product application modifies seed surface properties and therefore treated seeds will flow slower through the planter than non-treated seeds. Therefore, planters have to be calibrated for treated seed. In cases where planting is done right after seed treatment and under high humidity conditions, it is recommended to air treat seed at least 30 minutes before loading the planter.

- DIRECTIONS FOR USE:**
- SHAKE BEFORE USING.
 - Use only as indicated on this label.

Crop	Dosage	Remarks
Big legume seed: Chickpea, Cowpea, Green & Dry Bean, Peanut, Peas & Vetch, Soybean	125 ml/100 kg seed	Apply to the rhizobium inoculant and mix thoroughly together. Once mixed, then apply to the seed and mix thoroughly until it is evenly coated.
	62.5-250 ml/ha	Apply to the rhizobium inoculant and mix thoroughly together. Once mixed, then apply to the calibrated water volume/ha.
Small legume seed: Clover, Lucerne, Lupins, Polymorpha, Serradella	125-250 ml/100 kg seed	Apply to the rhizobium inoculant and mix thoroughly together. Once mixed, then apply to the seed and mix thoroughly until it is evenly coated.
	62.5-250 ml/ha	Apply to the rhizobium inoculant and mix thoroughly together. Once mixed, then apply to the calibrated water volume/ha.
Various seed: Maize, Sunflower, Wheat Canola, Rye grass, Sorghum	125-250 ml/100 kg seed	Apply to the <i>Trichoderma</i> spp. in WP or SC Formulation, <i>Pseudomonas</i> spp., and mix thoroughly together. Once mixed, then apply to the seed and mix thoroughly until it is evenly coated. For DS Formulation of <i>Trichoderma</i> spp., apply Bio-Shield® XT to the seed first and the apply the DS Formulation as a powder application. The treatment per 100 kg will depend on the required colour and volume of biological treatment added to the seed.
	250-500 ml/100 kg seed	
	12.5-100 ml/ha (Depending on seed size and mixture)	Apply to the <i>Trichoderma</i> spp. in WP or SC Formulation, <i>Pseudomonas</i> spp., and mix thoroughly together. Once mixed, then apply to the calibrated water volume/ha, infurrow.

Note: If Trillium® DS is to be used, apply the powder after the seed is coated by the liquid mixture aforementioned.