



BIOSTIMULANT

REG NO. M505 Act/Wet No. 36 of 1947
FOLLOW THE LABEL INSTRUCTIONS FOR USE

A WETTABLE POWDER FORMULATION FOR USE AS A BIOSTIMULANT OR BIOFERTILIZER TO INCREASE NUTRIENT EFFICIENCY, UPTAKE AND AVAILABILITY.	
GROUP	3

Not classifiable in terms of GHS
ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Methylobacterium symbioticum SB233 x 10⁷ CFU/g
Wettable Powder

Batch No.		Lot No
Date of Manufacture		Datum van Vervaardiging
Expiry date		Verval datum

UN NUMBER NOT REGULATED
REGISTRATION HOLDER / REGISTRASIEHOUER
CORTEVA AGRISCIENCE RSA (PTY) LTD / (EDMS) BPK
REG NO 1991/003030/07
Lakefield Office Park, Block A, 2nd Floor, 272 West Avenue, CENTURION, 0157 South Africa
™Trademark of/Handelsmerk van Corteva Agriscience LLC
Poisons Helpline: +27(0)861 555 777
Local Emergency No: +27(0)82-895-0621 (SA only)
24 Hour Emergency Tel No: +32-3-575-5555
Information Hotline Tel No: +27(0)12 683-5700

WARNINGS:

HAZARD STATEMENTS: NOT A HAZARDOUS SUBSTANCE (Not assigned).
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Do not eat, drink, phone or smoke while using the product.
Keep out of reach of children, uninformed persons, and animals.
Store away from food, feed, seed, and other agricultural chemicals.
Any total or partial reproduction of this label is prohibited.

The manufacturer offers this product under the following agreed conditions and sales guarantee:
The conditions of use of the product have been determined following rigorous tests and trials. However, it is impossible to consider all the variables and eliminate all the risks associated with its use. Injury or damage may result from conditions beyond the control of the manufacturer. The manufacturer only guarantees that this product conforms to its composition appearing on the packaging and that it is reasonably suitable for the purposes referred to under normal conditions of use. Under no circumstances should the manufacturer be held responsible for indirect or specific damage resulting from the use or handling of the product. Any deviation from this warranty can only be valid if it is issued in writing by an authorized legal representative of the manufacturer.

PRECAUTIONS:

PRECAUTIONARY STATEMENTS: - Keep out of reach of children. - Avoid breathing dust. - Do not get in eyes, on skin, or on clothing. - Wash hands thoroughly after handling. - Do not eat, drink, or smoke when using this product. - Wear protective gloves/eye protection/ face protection. - Call a poison centre if you feel unwell. - Store in a well-ventilated place. Keep container tightly closed. - Collect spillage.

Contains microorganisms. May cause allergic reactions. The use of respiratory protection equipment, disposable respirator, or filter mask or at least (EN 149 FFP3) or equivalent, is recommended when handling the preparation or applying the product.

RELEVANT SUBSTANCES:

COMPONENT	CAS No. EC	Concentration
<i>Methylobacterium symbioticum</i> SB23	Not assigned	100

FIRST AID MEASURES

General advice: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Do not leave the victim unattended.

Inhalation: Remove to fresh air. If symptoms persist, call a physician.

Skin Contact: Wash skin thoroughly with soap and water. If skin irritation persists, call a physician.

Eye contact: Immediately flush the eye with plenty of water for at least 20 minutes, holding the eye open. Remove contact lenses. If eye irritation persists, consult a specialist.

If swallowed: Rinse mouth. If swallowed, DO NOT induce vomiting.

DO NOT LEAVE THE PATIENT ALONE.

Have product container or label at hand.

USE RESTRICTIONS AND NOTES OF USE.

Do not apply to crops under water stress during a frost period or to crops severely affected by nutritional deficiency.

Rainfastness: If there is a risk of rain, observe a minimum delay of more than 1 hour between the application of the product and the rain event. If these conditions are not met, renew the application.

MODE OF ACTION

Increase nutrient availability, uptake and utilization by fixation of atmospheric nitrogen (N2) and making it directly available to the plant, and by increasing photosynthesis efficiency of the plant.

BlueN™ contains the exclusive strain of *Methylobacterium symbioticum* SB23, a nitrogen fixing bacterium characterized by its ability to fix atmospheric nitrogen and transform it into a nitrogen source that can be assimilated by the culture. After spraying, the bacteria present in BlueN™ rapidly colonizes the plant's phyllosphere and then multiplies throughout the culture cycle.

BlueN™ provides a new natural nitrogen source for cultivation through symbiotic fixation.

DIRECTIONS FOR USE: Use only as directed.

Compatibility: Do not apply to crops that are affected by soil salinity, water stress, frost, pests and diseases, poor nutrition, and other adverse factors. Application combined with chlorinated products or water (> 2 ppm Cl-) is not recommended as well as to add surfactants or fertilizers or plant protection products that contain them.

BlueN™ has been tested as a mixture with various plant protection products, fertilizers and adjuvants. For more information on the positive compatibility list, contact the Corteva Agriscience technical team.

Apply the mixture within a maximum of 6 hours after preparation.

FOLIAR APPLICATION

CROPS	APPLICATION RATE g/ha	APPLICATION TIMING	WATER VOLUME l/ha
CITRUS	500	Apply between beginning of shoot growth stage (BBCH 31) and fruit development (BBCH 75).	500 - 2000
ROW CROPS: GRAIN (maize, sweetcorn, sorghum, millet)	333	Apply when at least 50% of the ground is covered by crops. Apply between 4 and 8-leaf stage (BBCH 14 – 18).	100 - 250
POTATO	333	Apply when at least 50% of the ground is covered by crops. Apply between closing rows stage (BBCH 25) and beginning of flowering (BBCH 61).	100 - 400
LEGUME CROPS	333	Apply when at least 50% of the ground is covered by crops. Apply between V6-V8 to R1–R2 (BBCH 16/18 to 62).	100 - 250
SUNFLOWER	333	Apply when at least 50% of the ground is covered by crops. Apply between 4 and 8-leaf stage (BBCH 14 – 18).	100 - 250
ROW CROPS: SMALL GRAIN (wheat, barley, oat, rye)	333	Apply when at least 50% of the ground is covered by crops. Apply between mid of tillering (BBCH 25) and beginning of flowering (BBCH 61).	100 - 250

CONDITIONS OF USE: Slurry pH: Do not incorporate the product into a slurry with a pH less than 5 or more than 8. Observe a chlorine content of the slurry water of less than 2 ppm. Apply in the morning to facilitate the penetration of the bacteria into the tissue of the culture. It is recommended to apply during the period of maximum opening of the stomata. Crop Condition: Apply during active crop growth.
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SPRAYER CLEAN-UP

At the end of the product application period, the entire device (tank, boom, circuit, nozzles, etc.) must be rinsed with clean water. Rinsing the sprayer, spreading, or emptying the tank bottom and eliminating effluents must be carried out in accordance with the regulations in force.

STORAGE AND DISPOSAL

Storage conditions

Keep the product only in its original packaging, away from food and drink, including those for animals.

Keep out of the reach of children and unauthorized persons.

Store the product at room temperature or below in a well-ventilated area and in the original container.

Avoid long-term exposure to temperatures over 23 °C.

Avoid freeze/thaw cycles.

Keep the product tightly closed. After opening the sachet, the product should be used quickly.

Product and container disposal

Do not re-use empty containers for any other purpose, especially not for storing water, food or feed.

Do not clean product application equipment near surface water. Avoid pollution through the water drainage systems of farms or paths.

When using the product, thoroughly empty and rinse the container three times with clean water, making sure to pour the rinsing water into the sprayer tank.

Destroy empty containers or surplus product in an industrial incinerator approved for agricultural chemicals. Do not bury in or spray onto any area under agricultural use.

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