

Utrisha[®]N

NUTRIENT EFFICIENCY BIOSTIMULANT

TO INCREASE NUTRIENT EFFICIENCY, UPTAKE AND AVAILABILITY.

Mode of Action: Increase nutrient use efficiency through fixation of atmospheric nitrogen (N₂) and by increasing photosynthesis efficiency of the plant.

Utrisha[®]N contains an exclusive strain of *Methylobacterium symbioticum* SB23, a nitrogen fixing bacteria characterised by its ability to fix atmospheric nitrogen into a nitrogen source that can be assimilated by the crop. After application, the bacteria present in Utrisha[®]N rapidly colonises the plant's phyllosphere and multiplies during normal growth. Utrisha[®]N provides a natural nitrogen source to the crop through atmospheric nitrogen fixation and symbiotic interaction with a crop.

Authorised uses:

Utrisha[®]N is intended for foliar application.

Crops*	Application Rate (g/ha)	Time of application**	Water volume l/ha
Arable crops – apply when at least 50% of the ground is covered by crops			
Winter cereals	333	Apply between middle of tillering (BBCH 25) and beginning of flowering (BBCH 61)	100-250
Spring cereals		Apply between middle of tillering (BBCH 25) and 2 nd node stage (BBCH 32)	100-250
Winter oilseed rape		Apply at 4-6 leaf stage in autumn BBCH 14-16 or in the spring from rosette stage (BBCH 30) up to the end of mid flowering stage (BBCH 69)	100-250
Spring oilseed rape		Apply from 4-6 leaf stage up to the end of mid flowering stage (BBCH 69)	100-250
Maize		Apply between 4-8 true leaves (BBCH 14-18)	100-300
Grain legumes		Apply between 4 and 8 leaf stage (BBCH 14-18)	100-250
Grassland		Apply between beginning of tillering stage (BBCH 21) and flag leaf stage (BBCH 39)	100-250
Potatoes		Apply between closing rows stage (BBCH 25) and beginning of flowering (BBCH 61)	100-400
Sugar beet		Apply between BBCH 14 – BBCH 39	100-400
Horticultural crops - apply when at least 50% of the ground is covered by crops			
Chard, garlic, artichoke, celery, broccoli, onion, green onions, cabbage, cauliflower, escarole, white asparagus, green asparagus, spinach, pea, broad bean, sweet beet, fennel, lettuce, leek, radish, and carrot, Lucerne	333	Apply between 4 leaf stage (BBCH 14) and beginning of flowering (BBCH 61)	100-400
Strawberry, blueberries, raspberries, blackberries, currants, cranberries		Apply between 5 leaf stage (BBCH 15) and beginning of flowering (BBCH 61)	100-400

* For other crops and/or more information, consult with Corteva hotline.

** The BBCH growth stages are approximate and may vary depending on the weather conditions and agricultural practices. Apply during periods of active growth.

Take care to avoid drift through the use of drift reduction technology and applying during periods of low wind speeds.

Recommendations for use

- 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 plant.

It is recommended to apply during the period of maximum opening of the stomata at temperatures between 10°C and 30°C.

Crop Condition: Apply during active crop growth.

- Precautions of use

Do not apply to crops under stress. Stress can be caused by many factors including drought, frost, ground compaction, water-logging, trace element deficiency, disease and pest attack etc.

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, re-apply the product.

- Compatibility

Application combined with chlorinated products or water (> 2 ppm Cl-) is not recommended, nor surfactants, fertilisers or plant protection products that contain them.

Utrisha[®]N has been tested in mixture with various plant protection products, fertilisers and adjuvants. For more information on compatibility, please contact Corteva Agriscience technical hotline.

Any mixtures should be applied within 6 hours after preparation.

Storage and Disposal

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 unauthorised personnel.

Store the product at room temperature, in a well-ventilated area and in the original container. Do not expose to temperatures below 4°C or above 35°C. Keep the product tightly closed. After opening a pack, the product should be used quickly.

Rinse the container thoroughly three times with clean water, making sure to pour the rinsing water into the sprayer tank. Empty packaging should be disposed of according to local requirements. Reuse of packaging is prohibited.

SAFETY PRECAUTIONS

Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

Sprayer cleaning

The entire sprayer (tank, boom, sump, circuit, nozzles, etc.) must be rinsed with clean water in accordance with the regulations in force.

In the event of a spill

Wear suitable protective clothing, gloves, and eye or face protection. Secure the area.

Collect anything that may have been in contact with the product.

Clean the site and the equipment used, taking care to contain the effluents generated by the cleaning operation. Dispose of them according to the regulations in force.

WARNING

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 take into account 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 considered to be 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 authorised legal representative of the manufacturer.

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