



Agricultural Office
 Directorate of
 Plant Protection, Soil Conservation and Agri-environment
 ✉ H-1118 Budapest, Budaörsi út 141-145., Hungary
 ☎ 36-1/309-1000; Fax: 36-1/246-2942

**AUTHORISATION FOR PLACING ON THE MARKET AND USE OF
 BISTEP
 PLANT CONDITIONER PREPARATION**

1. Commercial name of the preparations: *Bistep plant conditioner preparation*

2. Type of the preparation: plant conditioner preparation

3. Manufacturer: UAB ALJARA

LT-11219 Vilnius, Geniu str. 16-38.

Lithuania

Statistical code: LT230719410

Holder of authorisation: Zavileiski Vitali

H-2092 Budakeszi, Pf: 43., Hungary

Tax identification: 8332376165

4. Raw materials, required quality conditions:

Raw materials: extract of earth worm humus, micro-organisms, macro and micro-elements, water

Required quality conditions

appearance: liquid of dark brown colour and with characteristic odour

Parameter		Value	Accepted difference
pH (original solution)		7,4	± 0,5
density (kg/dm ³)		1,01	± 0,1
dry matter content (w/w%)	minimum	1,3	
organic matter content (w/w%) d.m.	minimum	25,0	
N content (w/v%)	minimum	0,02	
P ₂ O ₅ content (w/v%)	minimum	0,03	
K ₂ O content (w/v%)	minimum	0,3	
MgO content (w/v%)	minimum	0,02	
B content (w/v%)	minimum	0,0002	
Fe content (w/v%)	minimum	0,01	
Mn content (w/v%)	minimum	0,007	
Mo content (w/v%)	minimum	0,09	

Zn content (w/v%)	minimum	0,008	
total germ number/cm ³)	minimum	0,8 x 10 ⁷	
micro fungus number/cm ³)	minimum	1,0 x 10 ²	
As content (mg/l)	maximum	10,0	
Cd content (mg/l)	maximum	2,0	
Co content (mg/l)	maximum	50,0	
Cr content (mg/l)	maximum	100,0	
Cu content (mg/l)	maximum	100,0	
Hg content (mg/l)	maximum	1,0	
Ni content (mg/l)	maximum	50,0	
Pb content (mg/l)	maximum	100,0	
Se content (mg/l)	maximum	5,0	

5. Use:

- to improve the conditions of field crops
 - winter cereals
 - *seed-treatment* – use 0,8-1,0 litre product/1 ton seeds treated in 2-10 % conc. solution,
 - *foliar application* – use 2-3 l/ha at 3-4 leaf stage, 1-2 l/ha at spring, at start of shoot development and start of shooting, sprayed in max. 0,5 % concentration,
 - oilseed rape
 - *seed-treatment* – use 1,5 litre product/1 ton seeds treated in 2-10 % conc. solution,
 - *foliar application* – use 2-3 l/ha at 2-3 leaf stage, 2-3 l/ha at spring, start of shoot development, then 1-2 l/ha 2 weeks later, sprayed in max. 0,5 % concentration,
 - maize
 - *seed-treatment* – use 2 litre product/1 ton seeds treated in 2-10 % conc. solution,
 - *foliar application* – use 2-3 l/ha at 2-3 leaf stage, 3-4 l/ha at 8-9 leaf stage, then 1-2 l/ha before tasseling, sprayed in max. 0,5 % concentration,
 - sunflower
 - *seed-treatment* – use 1,0-1,5 litre product/1 ton seeds treated in 2-10 % conc. solution,
 - *foliar application* – use 3-4 l/ha at 2-4 leaf stage, 2-3 l/ha between bud formation and flowering, sprayed in max. 0,5 % concentration,
 - soybean
 - *seed-treatment* – use 1,5 litre product/1 ton seeds treated in 2-10 % conc. solution,
 - *foliar application* – use 2-3 l/ha at the appearance of first tergeminal leaves, 1-2 l/ha at bud formation then two weeks later, sprayed in max. 0,5 % concentration,
 - potato
 - *treatment of tubers* – use 0,4-0,5 litre product/1 ton tubers treated in 2-10 % conc. solution,
 - *foliar application* – use 2-3 l/ha at 15-20 cm height, 1-2 l/ha at 30-35 cm height, 2-3 l/ha at bud formation, sprayed in max. 0,5 % concentration,
 - sugarbeet
 - *seed-treatment* – use 1,5-2,0 litre product/1 ton seeds treated in 2-10 % conc. solution,
 - *foliar application* – use 2-3 l/ha 3 times during the growing season, sprayed in max. 0,5 % concentration,
- to improve the conditions of horticultural crops
 - *foliar application and nutrition on room and balcony pot ornamental plants* – use max. 0,5 % conc. solution twice a month, but sprayed and irrigated minimum three times during the growing season,
 - root and tuber vegetables
 - *seed-treatment* – use 1,5-2,0 litre product/1 ton seeds treated in 2-10 % conc. solution,
 - *foliar application* – use 2-3 l/ha 3 times during the growing season, sprayed in max. 0,5 % concentration,
 - leaf vegetables, herb plants, bulb vegetables

- *seed-treatment* – use 1-2 litre product/1 ton seeds treated in 2-10 % conc. solution,
- *foliar application* – use 3-4 l/ha at sprouting, 2-3 l/ha 7-9 days later, 1-2 l/ha at 1-2 additional times during the growing season, sprayed in max. 0,5 % concentration,
- *irrigation* – use 2-3 l/ha, followed by foliar application during the growing season, in max. 0,5 % concentration,

tomato, paprika, aubergine

- *seed-treatment* – use 1 litre product/1 ton seeds treated in 2-10 % conc. solution,
- *foliar application* – use 3-4 l/ha at 3-4 leaf stage, 4-5 l/ha at bud formation, 2-3 l/ha at 1-2 additional times during the growing season, sprayed in max. 0,5 % concentration,
- *irrigation* – use 2-3 l/ha, followed by foliar application during the growing season, in max. 0,5 % concentration,

cucurbits

- *seed-treatment* – use 1,5-3,0 litre product/1 ton seeds treated in 2-10 % conc. solution,
- *foliar application* – use 2-3 l/ha at 1-3 leaf stage and bud formation, 1-2 l/ha at 1-2 additional times during the growing season, sprayed in max. 0,5 % concentration,
- *irrigation* – use 2-3 l/ha, followed by foliar application during the growing season, in max. 0,5 % concentration,

cabbages

- *seed-treatment* – use 10-15 litre product/1 ton seeds treated in 2-10 % conc. solution,
- *foliar application* – use 5-7,5 l/ha 3-4 times during the growing season, sprayed in max. 0,5 % concentration,
- *irrigation* – use 2-3 l/ha, followed by foliar application during the growing season, in max. 0,5 % concentration,

fruit plantations

- *establishment* – use 5-7 l/ha, *drenched* in max. 2 % conc. solution, 3-4 l/ha 2-3 days later, *sprayed* in max. 0,5 % conc. solution, then 5-7 l/ha 4-7 days later, *drenched* in max. 2 % conc. solution,
- *foliar application* – use 2-3 l/ha before bud burst, 3,5-4,5 l/ha at the appearance of first leaves, 3-4 l/ha once a month after flowering, at fruit formation and development, 2-3 l/ha after harvest, sprayed in max. 0,5 % concentration,
- *irrigation* – use 5-7 l/ha once a month during fruit development, in max. 0,5 % concentration,

grapevine plantations

- *establishment* – use 3,5-5,0 l/ha, *drenched* in max. 2 % conc. solution,
- *foliar application* – use 10-13 l/ha at bud burst, 8-10 l/ha at shoot development, late flowering, berry development and ripening, after harvest, sprayed in max. 0,5 % concentration,
- *irrigation* – use 15-25 l/ha once a month during berry development and ripening in max. 0,5 % concentration.

Shake before use! Do not spray in hot sunshine and strong wind. Use immediately the preparation diluted for spraying and irrigation. It is advised to make miscibility test before use in combination with plant protection products and fertilizers, mix first the preparation to water when preparing the spray. Ask for advise of the authorisation holder before use.

6. Hazards, occupational precautions

6.1. danger symbols, hazards classification: not needed

6.2. A Risk (R-)phrases associated with risks posed by dangerous substances: -

6.3. Safety (S-)phrases associated with safe use of hazardous substances:

S 2	Keep out of reach of children.
S 13	Keep away from food, drink and animal feeding stuffs.
S 20/21	When using, do not eat, drink or smoke.
S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

6.4. Re-entry time: 0 day**6.5. Occupational provisions:**

Leakage of the product, contact with eyes, skin, inhalation and eventual swallowing of the concentration shall be avoided by careful work. After work hand washing, thorough cleaning, showering and change of all clothing are required. In case of poisoning or its suspicion, stop work immediately.

6.6. Personal protective equipment for operators and users:

Protective clothing, protective hat, protective gloves, goggles, protective shoes, in case of (eventual) use of small volume in public area, protective gloves.

6.7. First-aid measures:

Following first-aid on the spot (see general procedure) get medical attention.

7. Environmental provisions:

Do not contaminate rivers, standing waters, water streams, reservoirs with the product, its unused residues, contaminated container.

The preparation shall not be used in biosphere reservoirs, in increasingly protected areas. It shall be used in nature protection areas, national parks and landscape protection districts only with the prior approval of the competent nature protection experts.

To protect aquatic organisms and to ensure water quality, do not store the preparation and respect an unsprayed buffer zone to the bank of standing water bodies and rivers of **50 m**.

8. Fire and explosion classification: non-inflammable, category „E”..**9. Packaging, storage and shelf-life****9.1. Packing material, weights:**

5-10-15-25-30-50-100 ml plastic vial
 150-200-250-300-350-400-450-500-550-600-650-700-750-800-850-900-950-1000 ml glass or plastic bottle
 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7-7,5-8-8,5-9-9,5-10-15-20-25 litre plastic can
 30-35-40-45-50-55-60-65-70-75-80-85-90-95-100-150-200 litre metal barrel
 250-300-350-400-450-500-550-600-650-700-750-800-850-900-950-1000 litre plastic tank
 20000-30000-40000 litres metal tank

9.2. Data to be indicated on the container and accompanying document:

Date of manufacturing, authorisation number, points 1, 2, 3, 5, 6, 7, 8, 9, 10 and 12 of the authorisation certificate and active substance content of point 4.

9.3. Storage conditions: dry, well-aerated covered place at temperatures between 0 °C and +30 °C, protected from direct sunshine

9.4. Shelf-life: 18 months in original sealed packaging

10. Customs tariff code provided by the applicant: 310100

11. Other provisions:

The preparations may not contain germination and growth inhibitors, seeds of quarantine weeds and their vegetative parts, infectious macro and micro organisms harmful from human, animal and plant health aspects and toxic, pollutant and radioactive substances.

12. Validity of the authorisation: 3 November 2021

Budapest, 3 November 2011

On behalf and in the name of
Dr. Márton Oravecz
president

László Jordán
director



stamp

Certification

It is to certify that the copy of the document attached to this certification is an authentic and official translation of the original authorisation certificate issued by the Hungarian competent authority for the authorisation of plant protection products.

Done at Budapest, 21 November 2011

**On behalf and in the name of
Dr. Márton Oravecz
president**

 
László Jordán
director
**Agricultural Office
Directorate of Plant Protection,
Soil Conservation and Agri-environment**