

GRAAL

Contains: Bacillus megaterium 5x10⁶ cfu/ml, Azospirillum lipoferum 5x10⁶ cfu/ml, Potassium sulfate 5%, amino acids of vegetable origin 1.6%, vegetable oil (glycerol – inert material) 30%

Amino acids - hydrolyzed proteins of vegetable origin

Potassium sulfate – obtained from crude potassium salt through a physical extraction process

Microorganisms: trichoderms, mycorrhizae, bacilli, fungi - not derived from/or produced using GMOs

Fertilizer

Product for foliar application

Formulations: suspension

Danger phrases

Not applicable

Precautionary statements

P501 – Dispose of contents/container in accordance with national/international regulations

The product can be used in organic farming according to Regulation (EC) 848/2018

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Batch. no: see above

Date of manufacture: see above

Validity period: 24 months

Storage: Store in a dry, cool and well-ventilated place. Storage temperature 5⁰C – 25⁰C.

Warning: Read the accompanying instructions before use.

Manufacturer: Norofert SA

Street LT. AV. Șerban Petrescu, No. 20, District 1,

Bucharest Romania

Phone: 0766 080 767

For your attention: Shake the container vigorously for 15-20 seconds for good homogenization. By observing the indications presented, the product can be used for its intended purpose. The manufacturer declines any responsibility for damages due to storage, handling or use not in accordance with the recommendations on this label.

GRAAL

Contains: Bacillus megaterium 5×10^6 cfu/ml, Azospirillum lipoferum 5×10^6 cfu/ml, Potassium sulfate 5%, amino acids of vegetable origin 1.6%, vegetable oil (glycerol – inert material) 30%

Fertilizer

Product for foliar application

Physico-chemical properties: GRAAL is presented in the form of a brown suspension with a specific smell.

Mode of action:

Biological fertilizer. Product containing microorganisms that help to improve soil structure, to fix nitrogen on plant roots, to fix atmospheric nitrogen, to metabolize phosphates, with a tonic effect on plants. It creates a microflora at the level of the roots that generates sufficient moisture. Potassium plays a very important role in protein formation and flowering. It is involved in stomatal functioning, helping to reduce plant transpiration, which increases drought resistance. Ascorbic acid has antioxidant and reducing action, with a role in mediating tolerance to abiotic stress (UV rays, salinity, heat, heavy metals). Ascorbic acid functions as a major redox buffer and as a cofactor for enzymes involved in the regulation of photosynthesis, hormone biosynthesis and the regeneration of other antioxidants. Ascorbic acid regulates cell division and growth and is involved in signal transduction.

Mode of use:

Crop	Dosage
Sunflower	1 l/ha
Wheat	1 l/ha
Rapeseed	1 l/ha
Corn	1 l/ha
Soybeans	1 l/ha

Application time:

For sunflowers, it is applied from the stage of 6-8 leaves until full bloom BBCH 18-65.

In corn from the 8-leaf stage to grains in the milk stage BBCH 18-73.

For autumn rape, apply BBCH 50-80 from the appearance of inflorescences until the beginning of ripening.

Soybeans are treated from the beginning of flowering until the seeds begin to mature BBCH 51-81.

In wheat, it starts from the appearance of the standard leaf until the milk phase BBCH 41-77.

Preparation of the solution:

Fill the tank of the treatment machine halfway, add the appropriate amount of product, and then top off with the rest of the water. Shake the spray solution well during filling and application. Clean water from known sources will be used.

Application technique:

Terrestrial equipment can be used for field application of the products, normally used for the crops mentioned above. Specific nozzles for foliar application will be used. The volume of solution used depends on the equipment used. It is recommended to use the solution volume of 200-400 l/ha, so that there is a good penetration and coverage of the culture. The solution will be applied immediately after mixing.

Application recommendations:

Do not keep the prepared solution overnight. Avoid applying in the middle of the day when temperatures exceed 25°C. If it rains shortly after application, it will be necessary to repeat the treatment. Not applicable when wind speed favors drift beyond the treatment area.

Compatibility: it can be used in a mixture with other plant protection products, but for combinations where compatibility is not known, a test is recommended beforehand.

Break time: 0 days

Equipment Cleaning: Equipment will be pressure washed before and after application, and particularly if a product that could damage the crop has been used prior to GRAAL.

Hygiene measures and work protection:

Avoid contact with skin, eyes and clothing. Do not breathe vapors/aerosols. Use personal protective clothing. Wear protective gloves, protective clothing and eye protection or face protection. Keep work clothes separate. Sufficient ventilation and ventilation of the workplace and storage. Do not eat, drink or smoke during use. Keep away from food, beverages and feed products, seeds or their packaging. Hands and/or face must be

washed before breaks and at the end of the work schedule. Keep out of reach of children and other unauthorized persons, and in animal access areas. If medical advice is necessary, keep the product container or label close at hand. After using the product, thoroughly wash the parts of the body that have been contaminated. Do not remove contaminated work clothing outside the workplace.

First aid measures:

Remove all contaminated clothing immediately. Keep the product container, label or safety data sheet in case you consult a doctor.

- after inhalation: rest, fresh air, medical assistance.
- after skin contact: Wash off immediately with plenty of soap and water. If irritation persists, call a doctor.
- after contact with the eyes: wash the affected eyes, with the eyelids open, for at least 15 minutes under running water.
- after ingestion: vomiting will not be induced. It will rinse the mouth very well. A doctor will be notified immediately.

Indications for the doctor: no specific antidote is known. It will be treated symptomatically.

Environmental protection measures:

Do not discharge on the ground/basement. Do not empty into drains/surface water/ground water. To prevent by any means that the product reaches the surface waters.

Disposal of empty packaging:

After emptying, the packages are rinsed three times, and the resulting water is added to the spray solution. They will be collected and handed over to a company dealing with packaging recycling/neutralization. Do not reuse empty packaging for other purposes.

Fire prevention and extinguishing measures:

Suitable extinguishing media: water spray, dry powder, sand, alcohol-resistant foam, carbon dioxide. Unsuitable: strong water jet. Full protective equipment and self-contained breathing apparatus will be worn. In case of fire and/or explosion do not inhale the smoke. Keep containers cool by spraying with water if exposed to fire. Collect the extinguishing water separately; discharge into sewers or rainwater systems is not permitted. Dispose of combustion residues and contaminated water according to the regulations in force.

Measures in case of spills or accidental losses:

It will be absorbed with an inert absorbent material (eg sand, silica gel, universal binder, sawdust). The product will be collected and stored in a tightly closed and airtight

container. The contaminated surface will be carefully cleaned. Contaminated wash water shall be conserved and disposed of. Personal protective equipment will be used.

Storage and transport conditions:

It will be stored in a dry, cool and well-ventilated place accessible only to authorized personnel. It shall be protected from direct sunlight and protected from frost. Keep away from food, drink and animal feed. Keep container tightly closed. Storage temperature 50 C – 250 C. The characteristics of the product may change if it is stored for a longer time at temperatures higher than those indicated. During handling, transport and storage, labor protection measures, PSI, etc. will be taken. During transport, the product will be protected from weather and heat.

Shelf life: two years from the date of manufacture.

To the attention of the user: following the indications presented, the product can be used for its intended purpose. The manufacturer declines any responsibility for damages due to storage, handling or use inconsistent with the recommendations on this label. Telephone number that can be called in case of emergency: National number for emergency cases: 021 318 36 06 Bucharest Public Health Institute (Mon-Fri: 8.00-15.00).