

GRAIN FORCE

powered by SEEDFORWARD

Exclusive by SAATEN-UNION.

**GRAINFORCE® stimulates
growth naturally.**

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**SAATEN
UNION**
Züchtung ist Zukunft

GRAINFORCE® – Organic-mineral NPK-fertilizer with micronutrients and biostimulants.

Organic mineral NPK-fertilizer with micronutrients

0.58 – 0.19 – 1.71

Under use of botanicals from the production of food and semi-luxury foodstuffs, micronutrient fertilizer and microorganisms

Active agents:

Botanicals from the production of food and semi-luxury foodstuffs, botanicals from the processing of medicinal and spice plants, EC fertilizer (micronutrient fertilizer), humic acids, algae, rock dust, synthetic polymers, microorganisms

Formulation: Water based suspension

Crops: Winter- and spring cereals
(wheat, barley, rye, triticale, oat)

Viscosity: 41 – 97 mPa · s (20 °C), 63 – 133 mPa · s (5 °C)

Density: 1216 g/litre

pH: 6.34

Application rate (undiluted):

300 ml/100 kg seeds · 365 g/100 kg seeds

Substances (% in fresh substance):

0.58 % nitrogen (N) · 0.19 % phosphate (P O) ·

1.71 % potassium oxide (K O) · 0.11 % iron (Fe) ·

1.25 % mangan (Mn) · 2.81 % zinc (Zn) ·

0.67 % zinc water-soluble (Zn)

Source materials:

Botanicals from the production of food and semi-luxury foodstuffs, botanicals from the processing of medicinal and spice plants, EC fertilizer (micronutrient fertilizer), humic acids, algae, rock dust, synthetic polymers, *Bacillus velezensis* (SBBV1, 10⁹ spores), *B. subtilis* (SBB51, 10⁹ spores), *B. pumilus* (SBBP1, 10⁹ spores), *B. megaterium* (SBBM1, 10⁹ spores), *B. amyloliquefaciens* (SBBA1, 10⁹ spores), *Paenibacillus polymyxa* (SBPvP1, 10⁹ spores), *P. validus* (SBPbV1, 10⁹ spores)

Minor components (% in fresh substance):

0.46 % magnesium oxide (MgO) · 39.32 % dry weight (TM) ·

20.39 % organic substance (ignition loss)

Best before: 12 months

Storage:

Keep in original container. The product should be stored in a temperature range of +5 °C to +25 °C and in a dry, well-ventilated room. Keep away from food, beverages, and feed. Keep out of reach of children.

Instructions for safe handling:

(SB001) Avoid any unnecessary contact with the product. Misuse may cause damage to health.

(SB010) Keep away from children.

(SS1201) Wear universal protective gloves (crop protection) when applying/handling the product. Wear protective gloves when handling treated seeds. Wash gloves before removing.



Application:

Seed treatment for cereals. Depending on container size, shake or stir with suitable technology before use. **GRAINFORCE®** can be applied pure or diluted. In order to achieve a more uniform coverage on the seeds, we recommend the addition of 20 % water to **GRAINFORCE®**. **GRAINFORCE®** is, to the best of our knowledge, compatible with all commonly used fungicidal seed treatments for cereals (Landor CT, Latitude XL, Orius Universal, Rubin Plus, Rubin TT, Vibrance Trio, Arena C, Celest, Toledo). In case of mixing **GRAINFORCE®** with one of the above-mentioned seed treatments, additionally follow the directions of use of the respective product. If necessary, the mixture of pure **GRAINFORCE®** and the additional component may be diluted with 20 % water.

For mixtures, we recommend the usage of a storage vessel with stirrer. Prepare only the amount of ready-to-use product or mixture that will directly be used. **GRAINFORCE®** and mixtures with **GRAINFORCE®** should only be applied to seeds in a homogenized state. After a longer pause, the product must be stirred again.

GRAINFORCE® in combination with fungicidal seed treatments can also be applied in two steps. In this case, we recommend applying the fungicidal seed treatment first. Subsequently, **GRAINFORCE®** can be added after a short period of setting. **GRAINFORCE®** can also be applied to pre-treated seeds without any problems. In this case, aspiration is inevitable and loose components must be removed by suitable techniques prior to the dressing process. **GRAINFORCE®** should only be applied using clean devices that are not contaminated with other seed treatment residues. The most suitable devices for application are batch coating systems or continuous seed coaters suitable for liquid seed treatments, which are in perfect functioning order. Please check from time to time if the application is running properly, even during the process!

Important advice:

Prior to use, follow the instructions for use printed on the package or attached to the product. Many factors of a local and regional nature, such as weather and soil conditions, plant species, seed variety, application date, application technique, resistances, mixtures with other products, etc., can influence the effect of the product. No liability for improper storage or application of the product.

Indication: The recommendations of the official advice have priority.

Manufacturer and distributor:

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