

## PRODUCT DATA SHEET

### ENERGEN STIMUL

**PREPARATION:**

**PRODUCER:**

EGT system spol. s r.o.

U Cukrovaru 1669/4B, PSČ 747 05, Opava, Kateřinky

**CONTENT:**

**Humic substances and their salts** 12 %

**Mixture of oligopeptides and amino acids** 10 %

pH 6.5 to 8.5.

**ENERGEN STIMUL** further contains a wetting agent with adhesive effect, extracts from seaweed – adaptogens and other substances promoting growth, increasing photosynthesis and promoting the increase in the size of seeds. The content of hazardous elements complies with the limits in mg/kg: Cd 1, Pb 10, Hg 1, As 10, Cr 50 stipulated by law in the Czech Republic.

**EFFECTS:**

- **Stimulation promoting growth and the formation of yield**, especially by increasing metabolite flow into seeds.
- **Increase in the size of seeds.** When the application of the preparation is connected with quality nutrition, it results in synergic effect when forming yield, mainly due to the increase in the size of seeds.
- **Promotes the creation of fine root hairs.** In consequence, this increases the use of moisture and nutrition.
- **Adaptogenic effect considerably increases the resistance to drought, coldness, salting, and the limit of tolerance to diseases.**
  - **Drought** – helps retain by 15 to 30 % more water in plants for 3 to 5 weeks.
  - **Coldness** - allows the plants treated function in temperatures by 2 to 3 degrees Celsius lower if compared to untreated control plants.
  - **Salting** - allows plants to grow better in salinated substrate.
  - **Increase of tolerance to mushroom diseases.**
- **Increases the content of reserve substances** (starch in potato, sugar in sugar beet, sugar cane and the content of sugar in grapes, fruit and fruit vegetables)
- **Slight increase of content of active substances** in plants (bitter alpha acids in hop, active substances in medical plants).
- **Contains wetting agents and adhesives** that create coating on leaves resistant to rain. Receives moisture from morning dew and repeatedly doses active substances to leaves.
- **Humic substances and particularly fulvic acids and low-molecular components** promote the creation of extensive root hair system. So stimulated plants better utilise spring moisture and concurrently supplied nutrients. Humic and fulvic substances remove herbicide shock. With regard to their high efficiency, it is recommended to apply the preparation as late as several days following the herbicide. (At the time all weeds have died off so that they are not recovered).
- **Influences the content of N in grain.** Application to malting barley during tillering until the start of stem elongation (for weak plants) significantly increases the yield and slightly decreases the content of N substances in grain. Application to barley in the second half of stem elongation until milk ripeness (suitable for stronger vegetation) increases the yield to a lesser extent, but considerably decreases the content of N in grain and, at the same time, slightly increases the content of sugars in grain.

**MAIN PURPOSE:**

- For all crops in the main growing period (elongation growth, stem elongation).
- For young plants of winter plantation (in quality and dense vegetation for the recovery after winter).
- For dense and quality vegetation of crops in initial phases of growth. Where we do want to promote their growth but not their branching.



**ADDITIONAL AND SPECIAL PURPOSE:**

- **Recovery after damage:** after chemical (herbicide), mechanical (hails) and frost damage of vegetation.
- **Deciduous and coniferous woody plants:** recommended application in ornamental and forest tree nurseries during the growing season.
- **Lawns:** recommended application all along the growing season.

## CROPS:

- **Cereals – wheat, barley, rice, maize, rye, oat, triticale:** recommended application in the period of stem elongation.
- **Cotton plant:** recommended application during active growth in pre-bloom period.
- **Rape and mustard:** recommended application in the phase of elongation growth.
- **Soya:** recommended application during active growth in pre-bloom period.
- **Poppy:** recommended application in the period of creation of the first bud. Wider recommendation – elongation growth.
- **Sunflower:** recommended application from the height of 20 cm till the beginning of creation of buds.
- **Maize:** recommended application during the period of main growth. (around 10<sup>th</sup> leaf)
- **Potato:** from planting max. 1 month, not later.
- **Onion, garlic:** recommended application from the emergence till the half of July repeatedly.
- **Pea:** recommended application during the period of main growth till the start of the creation of buds.

## SPECIAL CROPS – APPLICATION:

- **Melons, cucumbers, pumpkins, peppers, tomatoes:** all along the growing season.
- **Strawberry:** from planting till the ripening of first fruits.
- **Fruit woody plants, citruses, litchi, aktinidia, small fruit:** application continuously during the growing season, flowering and creation of fruits.
- **Cauliflower, kohlrabi, all kinds of lettuces and cabbages, other kinds of vegetable:** from the emergence till the harvest.
- **Pea, lentils, soya:** from the emergence till the start of creation of hulls.
- **Sugar beet:** in the period from the emergence till 10 leaves, not later.
- **Deciduous and coniferous woody plants in ornamental and forest tree nurseries:** all along the growing season.
- **Grapevine:** in post-bloom period on young berries from the size of 0.5 cm till the start of ripening.

## RECOMMENDED DOSAGE:

**Basic dose 1 litre/ha** in 100 to 300 litres of water or N fertilizer. **For cereals, we recommend the dose of 0.5 litre/ha** in 100 to 300 litres of water or N fertilizer. **For vegetation in good condition and with good reserve of nutrients, half of the dose recommended applies. The total range of recommended dosing is 0.25 to 1 litre/ha.** We only recommend max. dose of 2 litres per ha for extremely weak plants. **Risks** – plants may only be damaged when the dose 5 times higher than the maximum recommended one is applied.

## GREENHOUSE CROPS:

For inner greenhouse crops, we recommend the dose between 0.15 and 0.3 ml per m<sup>2</sup> at the dilution of 0.05 to 0.1 % (it is advisable to test higher concentrations individually – it is evident that e.g. young plant slips can withstand higher concentrations). We prefer lower repeated doses for greenhouse crops.



## NOTICE CONCERNING PLANT NUTRITION:

The application of ENERGEN preparations shall always be accompanied by quality fertilization. The stimulation creates conditions for better yield. If the stimulation is not accompanied by good level of nutrition, the stimulation effect may not be fully utilised for the increase of yield. We assure higher return of financial means by the combination of stimulation and nutrition. The nutrition shall ensure basic level of yield, and the stimulation shall even increase this yield level. The Energen preparations with adaptogenic (anti-stress) effect shall then sustain the yield level even under unfavourable conditions (drought, coldness, salting).

## MIXING:

The combination with liquid N fertilizers is possible. In combination with other liquid fertilizers we recommend to carry out the test of precipitation. When mixed with other preparations, full volume of water must always be used! We recommend to test the combination with pesticides (after the consultation with their producers) in small volume (e.g. in 0.1 litre). As a preventive measure, we recommend (in combination with other preparations and fertilizers) to apply the preparation within 15 hours after mixing. Do not mix with fertilizers with low pH. Substantial decrease of pH of the application solution (acidification under pH 5) would lead to gradual but reversible precipitating of humic substances. Do not mix with herbicides as the recovery of weeds may result! The aids for dosing of the preparation shall only be used for this purpose!!!. The term of protection depends on the pesticide the preparation is added to. The producer shall not be liable for any loss incurred by inappropriate use of the preparation! The product is not harmful to bees. **The instructions concerning the safety and health at work, storage, transport as well as other information are provided on the label. Full wording of the label may be found on [www.energen.info](http://www.energen.info).**

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