

Safety data sheet

Be-Grow Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Version: 2.1 Date / Revised: 11.02.2020

Product: Be-Grow Boost L

DocID 20200211_03

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Be-Grow Boost L

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Raw material, for industrial use only Recommended use: Plant-stimulant enhancing the productivity

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

2.2. Label elements

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

SECTION 3: Composition/Information on Ingredients

3.1. Mixtures

Chemical nature: potassium salt, polyacrylate, crosslinked

Hazardous ingredients (GHS) - according to Regulation (EC) No. 1272/2008

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled: If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact: Wash thoroughly with soap and water. If irritation develops, seek medical attention.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: Rinse mouth and then drink 200-300 ml of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide, water jet

Additional information: Avoid whirling up the material/product because of the danger of dust explosion.

5.2. Special hazards arising from the substance or mixture

Burning produces harmful and toxic fumes.

5.3. Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information: Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

SECTION 6: Accidental Release Measures

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

6.1. Personal precautions, protective equipment and emergency procedures

Breathing protection required. Avoid dust formation.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

Avoid raising dust. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Provide suitable exhaust ventilation at the drying process and in the area surrounding the melt outlet of processing machines. Avoid dust formation. Take precautionary measures against static discharges. Wash hands before breaks and at end of work.

Protection against fire and explosion: Fine dust of the product is capable of dust explosion. Use antistatic tools. Avoid all sources of ignition: heat, sparks, open flame.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep container dry because product takes up the humidity of air. Store in a cool place, away from direct sunlight, heat sources and oxidizing agents.

The packed product is not damaged by low temperatures or by frost.

The packed product will not be damaged by high temperatures.

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7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection: Breathing protection if breathable aerosols/dust are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection: Chemical resistant protective gloves (EN 374)

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Chemical protection overall (f.e. according to EN 13982) if dust is formed.

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form and Colour:	white granules
Odour:	odourless
Odour threshold:	not applicable, odour not perceivable
pH value:	approx. 6.0
glass transition temperature:	approx. 140 °C (approx. 101.3 hPa) The product has not been tested. The substance / product decomposes.
Boiling point:	No data available.
Flash point:	Not applicable, the product is a solid
Evaporation rate:	The product is a non-volatile solid.
Flammability:	Not a flammable solid according to UN transport regulations division 4.1 and GHS chapter 2.7.
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Ignition temperature:	No data available.
Vapour pressure:	No data available.
Relative vapour density (air):	The product is a non-volatile solid.
Solubility in water:	Insoluble, only capable of swelling
Self ignition:	Based on its structural properties the product is not classified as self-igniting.
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not applicable, the product is a solid
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.

9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.
SADT:	Not a substance/mixture liable to self-decomposition according to GHS.
Bulk density:	500 - 600 kg/m ³

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SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Dust explosion hazard.

10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

10.5. Incompatible materials

Avoid atmospheric moisture

10.6. Hazardous decomposition products

Thermal decomposition products: hydrocarbons

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 2,000 mg/kg: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

LD50 rat (dermal): > 2,000 mg/kg: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Irritation: Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization: The chemical structure does not suggest a sensitizing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Experimental/calculated data: No sensitizing effect.

Germ cell mutagenicity: No data was available concerning mutagenic activity.

Carcinogenicity: A chronic (2-year) lifetime inhalation study in rats with respirable superabsorber polymer dust (micronized to < 10 µm diameter) resulted in a non-specific inflammatory response in the lungs followed by tumor development in some rats in the highest chronic exposure level of 0.8 mg/m³. In the absence of chronic inflammation, tumours are not expected.

Reproductive toxicity: Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Developmental toxicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Specific target organ toxicity (single exposure): Remarks: Based on available Data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure): No data available.

Aspiration hazard: No aspiration hazard expected.

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Other relevant toxicity information: The toxicological assessment has not been finalized. Therefore, for the time being precautionarily irritating effects to skin and mucous membranes should be assumed.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish: LC50 (96 h) > 100 mg/l, *Brachydanio rerio* (OECD Guideline 203, static). The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic invertebrates: EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants: EC50 (72 h) > 100 mg/l, *Desmodesmus subspicatus* (OECD Guideline 201)

Nominal concentration.

Microorganisms/Effect on activated sludge: The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Soil living organisms: LC50 > 1,000 mg/kg, *Eisenia foetida* (OECD Guideline 207)

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential: No data available.

12.4. Mobility in soil

Volatility: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7. Additional information

Add. remarks environm. fate & pathway: Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

Other ecotoxicological advice: Do not release untreated into natural waters. The ecotoxic effect of the product has not been tested. The information on this was derived from products of similar structure or composition.

SECTION 13: Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations. A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.

Observe national and local legal requirements.

Contaminated packaging: Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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SECTION 14: Transport Information

14.1. Land transport, Inland waterway transport, Sea transport, Air transport

ADR,RID,ADN, IMDG, IATA/ICAO	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Transport in inland waterway vessel not evaluated

14.2. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Product is not classified as hazardous.

SECTION 16: Other Information

Any other intended applications should be discussed with the manufacturer.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Met. Corr.	Corrosive to metals
Eye Dam./Irrit.	Serious eye damage/eye irritation
H290	May be corrosive to metals.
H318	Causes serious eye damage.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.