

Safety Data Sheet

Be-Grow GmbH Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006 in the current version. Date / revised on: 30.06.2019 Version: 2.0



Product: Be-Grow Boost M

DocID 20190630_01

SECTION 1: Name of the substance or mixture and the undertaking

1.1. Product identifier

Be-Grow Boost M

1.2. Relevant identified uses of the substance or mixture and uses discouraged

Relevant Identified Uses: Raw material, for industrial use only

Suitable use: Plant stimulant to increase productivity

1.3. Details of the supplier providing the safety data sheet

Company

Be-Grow GmbH | Quellenstraße 20 |

67433 Neustadt | GERMANY

E-Mail Anschrift: info@be-grow.com

1.4. Notrufnummer

International emergency number:

Phone: +49 170 9500501

+49 170 9500502

SECTION 2: Possible Hazards

2.1. Classification of the substance or mixture

In accordance with Regulation (EC) No 1272/2008 [CLP]

The product is not subject to classification according to GHS criteria.

2.2. Labelling elements

Globally Harmonized System, EU (GHS)

The product is not subject to labelling according to GHS criteria.

2.3. Other hazards

In accordance with Regulation (EC) No 1272/2008 [CLP]

No special dangers known if the regulations/instructions for storage and handling are observed.

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SECTION 3: Composition/ingredient information

3.1. Substances

Not applicable

3.2. Gemical

Chemical characterization

Main ingredient potassium salt, polyacrylate, cross-linked

Hazardous Ingredients (GHS)

according to Regulation (EC) No.
1272/2008

Aluminium Sulphate

Content (W/W): $\geq 0\%$ - $< 1\%$

CAS Number: 10043-01-3

EC Code: 233-135-0

REACH Registration Number: 01-
2119531538-36

Met. Corr. 1

Eye Dam./Irrit. 1

H290, H318

For the classifications not fully advertised in this section, including hazard classes and hazard statements, the full text is set out in Section 16.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

After inhalation:

In case of discomfort after inhalation of dust: fresh air, medical help.

After skin contact:

Wash thoroughly with soap and water. If irritation occurs, consult a doctor.

After eye contact:

Rinse thoroughly under running water for at least 15 minutes with your eyelids spread.

After swallowing:

Rinse your mouth and drink 200 - 300 ml of water.

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4.2. Main acute and delayed symptoms and effects

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

4.3. Indications of emergency medical assistance or special treatment

Treatment: Symptomatic treatment (decontamination, vital signs), no specific antidote known.

SECTION 5: Firefighting Measures

5.1. Extinguishing agents

Suitable extinguishing agents:

Water spray, extinguishing powder, foam

Extinguishing agents that are unsuitable for safety reasons:

Carbon dioxide, full water jet

Additional Notes:

Avoid stirring up the substance/product due to the risk of dust explosion.

5.2. Special hazards posed by the substance or mixture in question

Burning produces harmful and toxic smoke.

5.3. Instructions for firefighting

Special protective equipment:

Wear self-contained breathing apparatus.

Other information:

Dusts can ignite explosively in the presence of an ignition source with a flash flame.

SECTION 6: Accidental Release Measures

Avoid stirring up dust in the air (e.g. Cleaning dusty surfaces with compressed air). Avoid dust formation and deposition - Dust explosion hazard. Dust in sufficient concentration forms an explosive mixture in air. Minimize dust formation, remove open flames and other sources of ignition.

6.1. Personal precautions, protective equipment and procedures to be followed in emergencies

Respiratory protection required. Avoid dust formation.

6.2. Environmental protection measures

Do not allow to enter the sewer system/surface water/groundwater.

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6.3. Methods and materials for retention and purification

For small quantities: Pick up mechanically.

For large quantities: Pick up mechanically.

Avoid dust generation. Use non-sparking tools and explosion-proof equipment.

6.4. Reference to other sections

Information on the limitation and monitoring of exposure/personal protective equipment and information on disposal can be found in Sections 8 and 13.

SECTION 7: Handling and Storage

7.1. Safe-handling safeguards

Ensure suitable extraction during drying and in the area of the melt outlet of processing machines.

Avoid dust formation. Take measures against electrostatic charges. Wash your hands before breaks and at the end of work.

Fire and explosion protection:

The fine dust content of the product is dust explosive. Use anti-static tools. Avoid all sources of ignition: heat, sparks, open flames.

7.2. Conditions for safe storage taking into account incompatibilities

Separation of food, beverages and animal feed.

Further information on storage conditions: Keep container dry as the product absorbs the moisture in the air. Store in a cool place, away from direct sunlight, heat sources and oxidizing agents.

Storage class according to TRGS 510 (originally VCI, Germany): (11) Combustible solids.

The packaged product will not be damaged at low temperatures or by frost. The packaged product will not be damaged at high temperatures.

7.3. Specific end-uses

For the relevant identified uses referred to in Section 1, the guidance set out in this Section 7 shall be observed.

SECTION 8: Limitation and Monitoring of Exposure/Personal Protective Equipment

8.1. Parameters to be monitored

Components with occupational exposure limits

No known occupational exposure limit values to be monitored.

8.2. Limiting and monitoring exposure

Personal protective equipment

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Respiratory:

Respiratory protection in case of formation of respirable dusts/vapours. Particulate filter with low retention capacity for solid particles (e.g. EN 143 or 149, type P1 or FFP1)

Guard:

Chemical-resistant protective gloves (EN 374)

Due to the large variety of types, the manufacturer's instructions for use must be observed.

Eye protection:

Safety goggles with side protection (frame glasses) (e.g. EN 166)

Body Protection:

Chemical protective coverall (e.g. according to EN ISO 13982) in case of dust formation

General protective and hygiene measures

The usual precautions when handling chemicals must be observed. Wearing closed work clothes is recommended.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	Granule
Color:	white
Smell:	odorless
Odor threshold:	not applicable, as no smell perceptible
pH:	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 speed:	The product is a non-volatile solid.
Flammability:	No flammable substance within the meaning of transport classification class 4.1 and GHS Chapter 2.7.
Lower Explosion Limit:	Not relevant for classification and labelling for solids. Upper explosion limit: Not relevant for classification and labelling for solids.
Ignition temperature:	No data available.
Relative Vapor Density (Air):	The product is a non-volatile solid. Solubility
in water:	insoluble, only swellable Distribution coefficient n-
octanol/water (log Kow):	not applicable for mixtures
Self-ignition:	Due to its structure, the product is considered non-self-flammable classified.
Thermal decomposition:	No decomposition if the regulations/instructions for storage and handling.
Viscosity, dynamic:	not applicable, the product is a solid
Danger of explosion:	Due to its structure, the product is considered non-explosive classified.

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Oxidizing properties: Due to its structure, the product is classified as non-oxidizing.

Self-heating ability: It is not a self-heating substance within the meaning of the UN Class 4.2 classification.

SADT: No self-decomposing substance/mixture according to GHS.

Bulk density: 500 - 600 kg/m³

9.2. Other information

No dangerous reactions if the regulations/instructions for storage and handling are observed.

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SECTION 10: Stability and Reactivity

10.1. Chemical stability

The product is stable if the regulations/instructions for storage and handling are observed.

10.2. Possibility of dangerous reactions

The product is not dust explosive in the form supplied; however, the accumulation of particulate matter leads to the risk of dust explosions. The accumulation of particulate matter in the presence of air can lead to the risk of dust explosions. Dust explosion hazard.

10.3. Conditions to avoid

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

10.4. Incompatible materials

Substances to avoid:

Humidity

10.5. Dangerous decomposition products

Thermal decomposition products:

Hydrocarbons

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Acute toxicity assessment:

Virtually non-toxic after a single oral intake. Practically non-toxic in single contact with the skin.

Experimental/calculated data:

LD50 Ratte (oral): > 2.000 mg/kg

The product has not been tested. The statement was derived from substances/products of similar structure or composition.

LD50 Ratte (dermal): > 2.000 mg/kg

The product has not been tested. The statement was derived from substances/products of similar structure or composition.

Irritant

Assessment of the irritant effect:

Does not irritate the skin. Does not irritate the eyes. The product has not been tested. The statement was derived from substances/products of similar structure or composition.

Experimental/calculated data:

Skin burns/irritation rabbits: Non-irritating. (OECD Guideline 404)

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Serious eye damage/irritation Rabbits: Non-irritating. (OECD Guideline 405) Respiratory/skin sensitization

Assessment of awareness:

Due to the chemical structure, there is no suspicion of a sensitizing effect. The product has not been tested. The statement was derived from substances/products of similar structure or composition.

Experimental/calculated data:

Does not have a sensitizing effect.

Keimzellenmutagenität

Mutagenicity assessment:

Data on the mutagenic effect are not available.

Carcinogenicity

Assessment of carcinogenicity:

A chronic lifetime inhalation study (2 years) in rats with alveolar-permeable superabsorbent polymer dust (micronized to a diameter < 10 µm) revealed non-specific inflammatory lung effects that led to the occurrence of lung tumors in the highest dose group (0.8 mg/m³) in some rats. Without chronic inflammatory reactions, no tumors are to be expected.

Reproductive toxicity

Assessment of reproductive toxicity:

In tests on animals, no indications of fertility-impairing effects were found. The product has not been tested. The statement was derived from substances/products of similar structure or composition.

Developmental toxicity

Teratogenicity assessment:

In tests on animals, no evidence of fertile-damaging effects was found. The product has not been tested. The statement was derived from substances/products of similar structure or composition.

Specific target organ toxicity (single exposure)

Remarks: Based on the available data, the classification criteria are not met.

Repeated dose toxicity and specific target organ toxicity (repeated exposure)

Repeated dose toxicity assessment: No data available.

Aspirations

No risk of aspiration to be assumed.

Other Toxicity Notes

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The toxicological safeguarding has not yet been completed. For precautionary reasons, skin and mucous membrane irritating effects in particular are to be assumed.

SECTION 12: Environmental Claims

12.1. Toxicity

Aquatic toxicity assessment:

Most likely acutely not harmful to aquatic organisms.

Fish toxicity:

LC50 (96 h) > 100 mg/l, *Brachydanio rerio* (OECD guideline 203, static)

The product has not been tested. The statement was derived from substances/products of similar structure or composition.

Aquatic Invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD guideline 202, part 1, static)

Seaweed:

EC50 (72 h) > 100 mg/l, *Desmodesmus subspicatus* (OECD-Richtlinie 201) Nominalkonzentration.

Microorganisms/effect on activated sludge:

If low concentrations are properly discharged into biological sewage treatment plants, disturbances in the degradation activity of activated sludge are not to be expected.

The bodily organism:

LC50 > 1.000 mg/kg, *Eisenia foetida* (OECD-Richtlinie 207)

12.2. Persistence and degradability

Assessment of biodegradation and elimination in H₂O: Due to its low water solubility, the product is largely mechanically separated in biological wastewater treatment plants. Difficult to biodegrade in biological sewage treatment plants.

12.3. Bioaccumulation potential

Assessment of bioaccumulation potential:

No data available.

12.4. Mobility in the ground

Assessment of transport between environmental compartments:

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 that meets the PBT criteria (persistent/bioaccumulative/toxic) or the vPvB criteria (very persistent/very bioaccumulative). Self-classification

12.6. Other harmful effects

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

12.7. Additional Notes

The product contains: ≤ 20 (W/W) PPM GES. HEAVY METALS AS PB I. SUL

Other Notes Distribution & Whereabouts:

Due to the consistency of the product, disperse distribution in the environment is not possible. Negative ecological effects are therefore not to be expected, according to current knowledge.

Other ecotoxicological information:

Do not allow product to enter water without pretreatment. The ecotoxic effect of the product has not been tested. The statement on this was derived from products with a similar structure or composition.

SECTION 13: Disposal Instructions

13.1. Waste treatment processes

Must be disposed of in accordance with local regulations.

A waste code number according to the European Waste Catalogue (EAK) cannot be determined, as this depends on the use. The national and local legal regulations must be observed.

Uncleaned packaging:

Untaminated packaging can be reused. Packaging that cannot be cleaned must be disposed of like the fabric.

SECTION 14: Transportation Information

Land transport

COR

No dangerous goods in the sense of transport regulations

UN Number: Not applicable

Proper UN shipping designation: Not applicable

Transport hazard classes: Not applicable

Packaging group: Not applicable

Environmental hazards: Not applicable

Special Precautions for the User: None known

RID

No dangerous goods in the sense of transport regulations

UN Number: Not applicable

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Proper UN shipping designation:	Not applicable
Transport hazard classes:	Not applicable
Packaging group:	Not applicable
Environmental hazards:	Not applicable
Special	None known
Precautions for the User	

Inland transport

ADN

	No dangerous goods in the sense of transport regulations
UN Number:	Not applicable
Proper UN shipping designation:	Not applicable
Transport hazard classes:	Not applicable
Packaging group:	Not applicable
Environmental hazards:	Not applicable
Special	None known
Cautions for the user:	

Transport by inland tanker / ship for bulk goods not rated

Seeschifftransport

IMDG

No dangerous goods in the sense of transport regulations

UN Number: Not applicable

Proper UN designation: Not applicable Shipping

Transport hazard classes: Not applicable

Packaging group: Not applicable

Environmental hazards: Not applicable

Special Precautions for the User: None known

Precautions for the User

Sea transport

IMDG

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

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Air transport

IATA/ICAO

No dangerous goods in the sense of transport regulations

UN Number: Not applicable

Proper UN designation: Not applicable Shipping

Transport hazard classes: Not applicable

Packaging group: Not applicable

Environmental hazards: Not applicable

Special Precautions for the User: None known

Air transport

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

Packaging group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

14.1. UN-Nummer

See corresponding entries for "UN number" of the respective regulations in the tables above.

14.2. Proper UN shipping designation

See corresponding entries for "Proper UN Consignment Designation" of the respective regulations in the tables above.

14.3. Transport hazard classes

See corresponding entries for "Transport hazard class(es)" of the respective regulations in the tables above.

14.4. Packaging Group

See corresponding entries for "Packaging group" of the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" of the respective regulations in the tables above.

14.6. Special Cautions for the User

See corresponding entries for "Special precautions for the user" of the respective regulations in the tables above.

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14.7. Bulk cargo transport in accordance with Annex II to the MARPOL Convention and in accordance with the IBC Code

Regulation: unrated
Transport permitted: unrated
Damage: unrated
Pollution category: unrated
Type: unrated

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: Legislation

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

Major Accidents Ordinance (Germany):
no

Water hazard class (§8/§10 AwSV (self-classification of the mixture according to calculation rule)):
(1) Slightly hazardous to water.

If there are other legal provisions to be applied that are not already listed elsewhere in this safety data sheet, they are in this subsection.

15.2. Chemical safety assessment

Product is not classified as hazardous.

SECTION 16: Other Disclosures

Further intended applications should be discussed with the manufacturer.

Full text of the classifications, including hazard classes and hazard statements, if referred to in Section 2 or 3:

Met. Corr. Corrosive to metals
Eye Dam./Irrit. Severe Eye Damage/Eye Irritation H290 Can
be corrosive to metals. H318 Causes serious eye damage.

The above information in this safety data sheet is based on our current knowledge and experience and describe the product with regard to safety requirements. The information is in no way to be regarded as a certificate of analysis or technical data sheet or as a description of the nature of the goods (product specification). An agreed quality or suitability of the product for a specific purpose cannot be derived from the identified uses specified in the safety data sheet. Any intellectual property rights as well as existing laws and regulations must be observed by the recipient of our product on his or her own responsibility.