

SDS - Safety Data Sheet

according to
Regulation (EC) No. 1907/2006 (REACH)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

SANBIO® PLANTA

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

Use of the Substance/Mixture Fertilizer // Activator

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number

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Giftinformationszentrale Nord, Göttingen, Germany Telephone +49 (0)551 19240

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC,1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling according to REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labelling according to EC Directives (67/548/EEC)

Further information The product does not need to be labelled in accordance with
EC directives or respective national laws.

2.3 Other hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

3. Composition/information on ingredients

3.1 Substances

Chemical Name	CAS-No. EINECS-No. / ELINCS-No.	Concentration [% w/w]
Magnesium Sulphate Heptahydrate MgSO ₄	10034-99-8 / 231-298-2	60
Ascophyllum nodosum	84775-78-0 / 283-907-6	30
Mixture of microorganisms	-	10

4. First aid measures

4.1 Description of first aid measures

General advice	Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air.
In case of skin contact	Rinse with water.
In case of eye contact	Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
If swallowed	Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	Ingestion may provoke the following symptoms: Diarrhoea
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment	For specialist advice physicians should contact the Poisons Information Service.
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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	none

5.2 Special hazards arising from the substance or mixture

Specific hazards during Firefighting	Heating or fire can release toxic gas. Sulphur oxides
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5.3 Advice for firefighters

Special protective equipment for firefighters	Respiratory protection
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Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid breathing dust.
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6.2 Environmental precautions

Environmental precautions Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Sweep up and shovel into suitable containers for disposal.
After cleaning, flush away traces with water.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Avoid dust formation.
Avoid inhalation, ingestion and contact with skin and eyes.

Advice on protection against fire and explosion

The product is not flammable.
No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep in a dry place.

Advice on common storage

No special restrictions on storage with other products.

German storage class

13 Non-combustible solids

Other data

Stable under recommended storage conditions.

7.3 Specific end uses

Not relevant

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures Provide adequate ventilation.

Personal protective equipment

Respiratory protection Effective dust mask.

Hand protection not required under normal use

Eye protection Safety glasses

Skin and body protection not required

Wear suitable protective clothing.

Hygiene measures

When using do not eat or drink.

Wash hands before breaks and at the end of workday.

Protective measures

Do not breathe dust.

Environmental exposure controls

General advice

Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Powder
Color	grey
Odor	characteristic
pH	ca. 6.7 at 20.7 °C
Melting point/range	Not applicable
Flash point	Not applicable
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	Not applicable
Density	1.5 g/cm ³
Water solubility	water dispersible (powder)
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	Not applicable
Ignition temperature	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not applicable

9.2 Other information

Bulk density	ca. 900 kg/m ³
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10. Stability and reactivity

10.1 Reactivity

Stable

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid None known.

10.5 Incompatible materials

Materials to avoid None known.

10.6 Hazardous decomposition products

Hazardous decomposition Products No decomposition if stored and applied as directed.
Heating or fire can release toxic gas.
Sulphur oxides

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity	LD50: > 2000 mg/kg, rat, OECD 425, Information given is based on data obtained from similar substances.
Acute inhalation toxicity	This information is not available.
Acute dermal toxicity	> 2000 mg/kg, rat, OECD Test Guideline 402, Information given is based on data obtained from similar substances.
Skin corrosion/irritation	Result: No skin irritation, EU Method B.46, Information given is based on data obtained from similar substances.
Serious eye damage/eye irritation	Slight cytotoxicity, average diameter 0.9
Respiratory or skin Sensitization	mouse, Result: Does not cause skin sensitization., OECD Guideline 429, anhydrous substance
Germ cell mutagenicity	
Genotoxicity in vitro	Result: negative, OECD 476, anhydrous substance
Genotoxicity in vivo	no data available
Carcinogenicity	This information is not available.
Reproductive toxicity	According to experience not expected rat, NOAEL: >= 1500 mg/kg, OECD Guideline 422, Information given is based on data obtained from similar substances.
Assessment Teratogenicity	Animal testing did not show any effects on fertility. rat, NOAEL: >= 1500 mg/kg, OECD Guideline 422, Information given is based on data obtained from similar substances.
Assessment	Did not show mutagenic or teratogenic effects in animal experiments.
STOT - repeated exposure	rat, NOAEL: >= 256 mg/kg, OECD Test Guideline 453, Information given is based on data obtained from similar substances.
Further information	Health injuries are not known or expected under normal use.

12. Ecological information

12.1 Toxicity

Product

Toxicity to fish	LC50: 680 mg/l, 96 h, Pimephales promelas (fathead minnow), Information given is based on data obtained from similar substances.
Toxicity to daphnia and other aquatic invertebrates.	LC50: 720 mg/l, 48 h, Information given is based on data obtained from similar substances.
Toxicity to algae	EC50: 2700 mg/l, 18 d, Chlorella vulgaris (Fresh water algae), Information given is based on data obtained from similar substances.
Toxicity to bacteria	EC50: 84 mg/l, 0.5 h, Photobacterium phosphoreum

12.2 Persistence and degradability

Product
Biodegradability Not applicable

12.3 Bioaccumulative potential

Product
Bioaccumulation Not applicable

12.4 Mobility in soil

Product
Physico-chemical
Removability Not applicable

12.5 Results of PBT and vPvB assessment

Product
Assessment This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Product
Adsorbed organic bound
halogens (AOX) Not applicable

13. Disposal considerations

13.1 Waste treatment methods

Product Check if agriculture use is possible.
Contaminated packaging Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport information

14.1 Land transport

ADR
Remarks Not a dangerous substance as defined in the above regulations.
Tunnel restriction code Not relevant

14.2 Sea transport

IMDG
Remarks Not classified as dangerous in the meaning of transport regulations.

14.3 Air transport

IATA-DGR
Remarks Not classified as dangerous in the meaning of transport regulations.

14.4 Special precautions for user

Not relevant

14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

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

Water contaminating class

(Germany)

WGK 1 slightly water endangering

Notification status REACH

This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Certain statements may not be applicable in all geographical regions. Product associated claims may differ based on government requirements. Product availability may vary by country. Please contact SANBOS for further information.

SANBIO® is the registered trademark of SANBOS GmbH, Germany.

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