

# 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® EPSOMIT**

### 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

Company SANBOS GmbH  
Geraer Strasse 14  
D-06712 Gutenborn-Drossdorf  
Germany  
Telephone +49-3441-539873  
Telefax +49-3441-539874  
Email address info@sanbos.com

### 1.4 Emergency telephone number

SANBOS GmbH, Germany Telephone +49 (0)173 6990195  
Giftinformationszentrale Nord, Göttingen, Germany Telephone +49 (0)551 19240

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification according 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 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 labeled 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 <sub>4</sub> ·7H <sub>2</sub> O)	10034-99-8 / 231-298-2	99.9

#### 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.
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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
Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

#### 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.
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##### 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      crystalline  
Colour      white

Odour	very faint
pH	ca. 6.8 at 20.7 °C, Aqueous solution
Melting point/range	770 °C
	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	1.7 g/cm <sup>3</sup>
Water solubility	MgSO <sub>4</sub> : 342 g/l, 20 °C
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. 980 kg/m <sup>3</sup>
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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

Acute inhalation toxicity	based on data obtained from similar substances.
Acute dermal toxicity	This information is not available.
Skin corrosion/irritation	> 2000 mg/kg, rat, OECD Test Guideline 402, Information given is based on data obtained from similar substances.
Serious eye damage/eye Irritation	Result: No skin irritation, EU Method B.46, Information given is based on data obtained from similar substances.
Respiratory or skin Sensitization	rabbit, Result: No eye irritation, OECD Test Guideline 405, Information given is based on data obtained from similar substances.
Germ cell mutagenicity	mouse, Result: Does not cause skin sensitization., OECD Guideline 429, anhydrous substance
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 experiments.	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.

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