

SDS - Safety Data Sheet

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

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

Trade name	SANBIO® TERRA
Chemical product name	Mixture of activated Calcium Carbonate and blend of natural microbial cultures
Synonyms	Natural activator for treatment of slurry, manure and organic waste
Supplier	SANBOS GmbH Geraer Straße 14 D-06712 Gutenborn, OT Drossdorf Germany Tel. +49-3441-539873 Fax +49-3441-539874
Emergency Telephone no	+49-(0)173-6990195
e-mail-address of person responsible for this MSDS	jm@sanbos.com
Recommended use	Manure treatment, composting of organic waste

2 Composition / Data on components

Chemical characterization	Mixture of activated Calcium Carbonate and blend of natural microbial cultures
CAS No.	471-34-1
Identification No.	
EINECS No.	207-439-9

3 Hazards identification

Hazard description	not applicable
Information pertaining to particular dangers for man and environment:	No hazards to be particularly mentioned. According to current European laws and regulations the product is not dangerous or toxic material (based on the available data).

4 First aid measures

General information	No special measures required.
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After inhalation	Supply fresh air; consult doctor in case of complaints
After skin contact	Wash with water and soap
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.
After swallowing	Rinse mouth with water. Give some milk. If symptoms occur or after swallowing of larger quantities consult a doctor.
Information for doctor	Redness of skin. Irritation of eyes and mucous membrane.

5 Fire fighting measures

Suitable extinguishing agents	The product is not combustible and does not support the combustion. Use fire fighting measures that suit the environment.
Special hazards caused by the material, its products of combustion or resulting gases	Dangerous decomposition product see chapter 10: stability and reactivity.
Protective equipment	Wear self-contained respiratory protective device.

6 Accidental release measures

Person-related safety precautions	Ensure adequate ventilation. Avoid formation of dust. Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective clothing.
Measures for environmental protection	No special measures required.
Measures for cleaning and collecting	Pick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according item 13.

7 Handling and storage

Handling

Information for handling	Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Avoid contact with eyes and skin. Avoid inhalation of dust.
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Information about protection against explosions and fires	No special measures required.
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Storage

Requirements to be met by storerooms and receptacles	Not required.
Information about storage on	Do not store together with acids.

common storage facility:

Further information about Storage conditions: Store in cool and dry conditions. Do not freeze.

Storage class Storage class 13 - Non combustible solid.

8 Exposure controls and personal protection

Additional information about design of technical systems No further data; see item 7

Components with limit values that require monitoring at the workplace Not required

Additional occupational exposure limit values for possible hazards during processing: Observe general threshold limit for dust.

Additional information The lists that were valid during the creation were used as basis.

Personal protective equipment
General protective and hygienic measures: The usual precautionary measures should be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Do not inhale dust/smoke/mist. Avoid close or long term contact with the skin. Avoid contact with the eyes. Ensure that washing facilities are available at the work place. Do not eat or drink while working. Vacuum clean contaminated clothing. Do not blow or brush off contamination. Use skin protection cream for skin protection.

Breathing equipment Use suitable respiratory protective devices in case of insufficient ventilation. Short term filter device. Filter class: FFP-3 (EN149)

Protection of hands Protection gloves or protective skin cream. To avoid skin problems reduce the wearing of gloves to the required minimum. Prior to contact with the water insoluble substance/product/preparation apply water soluble skin-protecting agent (fat-free film former or O/W-emulsion). After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves Adjust selection of glove material to the other substances used.

Penetration time of glove material The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection At formation of dust or insufficient ventilation: Tightly sealed goggles.

Body protection Protective work clothing.

9 Physical and chemical properties

General information

Form	particular powder
Colour	grey, beige, white
Odour	Odourless

Change in conditions

Melting point/range:	-
Boiling point/range	-
Flash point	-
Flammability	Product is not flammable.
Ignition temperature	-
Decomposition temperature	900°C
Density at 20°C	2.7 g/cm ³
Danger of explosion	Product does not present an explosion hazard.
Solubility in / Miscibility with Water at 20°C:	16 mg/l (ISO 787/8)
PH-value at 20°C	8-10 (DIN/ISO 787/9)

10 Stability and reactivity

Thermal decomposition / conditions to be avoided	No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat. Decomposition will begin at 900°C forming CaO and CO ₂
Materials to be avoided	Acids
Dangerous reactions	Violent reactions with acids forming carbon dioxide.
Dangerous products of decomposition	Can react with acids by forming carbon dioxide which displaces oxygen (danger of asphyxiation).

11 Toxicological information

Acute toxicity

LD/LC50 values that are relevant for classification	1317-65-3 Calcium carbonate Oral LD 50 > 5000 mg/kg (rat)
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Primary irritant effect

On the skin	No irritation, but slight irritation or redness is possible after long or repeatedly mechanical contact.
On the eye	Light irritation possible.
Sensitization	No sensitizing effects known.

Additional toxicological information: When used and handled according to specification, the product does not have any harmful effects according to our experience the information provided to us. The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

Information about elimination (persistence, degradability) Not biodegradable.

Eco-toxicological effects (Aquatic toxicity) 1317-65-3 Calciumcarbonat
 LC₅₀ 48h > 1000 mg/l (daphnia magna)
 LC₅₀ 72h > 200 mg/l (algae)
 LC₅₀ 96h >10000 mg/l (fish)

Remark Calcium carbonate in solid and dissolved state is a natural component of the geosphere. Adverse effects on the environment are not to be expected. However, concentrated slurries of Calcium Carbonate may have adverse effects on the aquatic organisms (disturbance of microflora and microfauna) when entering natural surface water.

General notes: Not hazardous for water according to VwVwS (German regulation) appendix 1 dated 1999-05-17.

13 Disposal considerations

Product recommendations Disposal according to instructions of local authorities.

Unclean packaging Disposal according to instructions of local authorities.

14 Transport information

Land transport (cross-border) No hazardous good according to the regulation ADR/RID class: -

Maritime transport No hazardous good according to the regulation IMDG class: -

Air transport No hazardous good according to the regulation ICAO-TI/IATA-DGR class: -

15 Regulations

Markings according to EC guidelines Observe the general safety regulations when handling chemicals. The substance (product) is not subject to classification according to EC-directives and other sources of literature known to us.

National regulations Water hazard class Not hazardous for water.

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.

Training advice: Handling of this substance or preparation is restricted to skilled personal only.



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