1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product information**

<table>
<thead>
<tr>
<th>Trade name</th>
<th>Sipernat® 50 S</th>
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<tbody>
<tr>
<td>Use of the Substance / Preparation</td>
<td>Anticaking agents</td>
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<td>Free flow agents</td>
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<td></td>
<td>Carrier</td>
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<td></td>
<td>Thickening agent</td>
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<tr>
<td>Company</td>
<td>Evonik Degussa Corporation</td>
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<tr>
<td></td>
<td>379 Interpace Parkway</td>
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<td></td>
<td>Parsippany,NJ 07054</td>
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<td></td>
<td>USA</td>
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<tr>
<td>Telephone</td>
<td>973-541-8000</td>
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<tr>
<td>Telefax</td>
<td>973-541-8040</td>
</tr>
<tr>
<td>US: CHEMTREC EMERGENCY NUMBER</td>
<td>800-424-9300</td>
</tr>
<tr>
<td>CANADA: CANUTEC EMERGENCY NUMBER</td>
<td>613-996-6666</td>
</tr>
<tr>
<td>Product Regulatory Services</td>
<td>973-541-8060</td>
</tr>
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</table>

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

*Form* - powder  *Color* - white  *Odor* - odorless

Dust may be irritating to respiratory tract.

POTENTIAL HEALTH EFFECTS

Eye contact
Possibly irritating.

Skin Contact
May cause drying of the skin.

Inhalation
Possibly irritating.

Ingestion
No hazard expected in normal use.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components

Silicon dioxide, chemically prepared
CAS-No. 112926-00-8
Percent (Wt./ Wt.)

Other information
This material is classified as hazardous under OSHA regulations.

A new CAS , 112926-00-8, has been assigned to Amorphous Precipitated Silica to distinguish it from crystalline. According to EPA this product meets TSCA requirements and is listed on the TSCA Inventory as Silica, CAS 7631-86-9.

4. FIRST AID MEASURES

Inhalation
In case product dust is released: Possible discomfort: cough, sneezing
Move victims into fresh air.

Skin contact
Wash off with soap and plenty of water.

Eye contact
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

Ingestion
If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point not applicable
Lower explosion limit not applicable
Upper explosion limit not applicable
Autoignition temperature not applicable

Suitable extinguishing media
All extinguishing substances suitable.

Specific hazards during fire fighting
None known.
Special protective equipment for fire-fighters
As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear personal protective equipment.

Environmental precautions
Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Methods for cleaning up
Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling

Safe handling advice
If necessary: Local ventilation.

Advice on protection against fire and explosion
Take precautionary measures against static discharges.

Storage

Requirements for storage areas and containers
Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component occupational exposure guidelines

- Silicon dioxide, chemically prepared
  
  CAS-No. 112926-00-8
  Control parameters
  
  Respirable fraction.
  5 mg/m³
  PEL:(OSHA Z1)
  15 mg/m³
  Total dust.
  PEL:(OSHA Z1)
  20millions of particles per cubic foot of air
  0.8 mg/m³
  Time Weighted Average (TWA):(Z3)

  The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.
Personal protective equipment

Respiratory protection
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection
Wear protective gloves made of the following materials: material, rubber, leather.

Eye protection
Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin and body protection
A safety shower and eye wash fountain should be readily available.
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures
When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.
To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.
Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: powder
Color: white
Odor: odorless

Safety data
pH: ca. 6 (50 g / l) (20 °C)
Method: DIN / ISO 787 / 9 (suspension)
Melting point/range: ca. 1700 °C
Boiling point/range: not applicable
Flash point: not applicable
Flammability: not applicable
Autoignition temperature: not applicable
Autoinflammability: not applicable
Lower explosion limit: not applicable
Upper explosion limit: not applicable
Minimum ignition energy: not applicable
Vapor pressure: not applicable
Density: ca. 2 g/cm³ (20 °C)
Tapped density: ca. 100 g / l
   Method: DIN / ISO 787/11
Water solubility: hardly soluble
Partition coefficient (n-octanol/water): not applicable
Viscosity, dynamic: not applicable

10. STABILITY AND REACTIVITY

Hazardous decomposition products: None known.
Thermal decomposition: > 2000 °C
Hazardous reactions: This product is a highly absorbant, synthetic silica with an extremely high surface area. By using this silica as a carrier for easy oxidizable liquids, it is reckoned that a possibly occurring oxidizing process is accelerated due to the high surface area of the silica. Therefore a self-ignition of the coated substance can occur.

11. TOXICOLOGICAL INFORMATION

Product: Acute oral toxicity
LD50 Rat: > 10000 mg/kg
   Method: literature

Product: Acute inhalation toxicity
LC0 Rat: 0.139 mg/l / 4 h
   Method: literature
   (maximum concentration attainable in experiments)
   No deaths occurred.

Product: Acute dermal toxicity
LD50 Rabbit: > 5000 mg/kg
   Method: literature

Product: Skin irritation
Rabbit
   literature
   not irritating

Product: Eye irritation
Rabbit
   literature
   not irritating
12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish
LC50 (Brachydanio rerio): > 10000 mg/l / 96 h
Method: OECD 203

Toxicity to daphnia
EC50 Daphnia magna: > 10000 mg/l / 24 h
Method: OECD 202

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
Advice on disposal
Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

14. TRANSPORT INFORMATION

Transport/further information
Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

Water
CAS-No. 7732-18-5 Percent (Wt./ Wt.)
Sodium Sulfate  
CAS-No. 7757-82-6  Percent (Wt./ Wt.)

US Federal Regulations

OSHA
If listed below, chemical specific standards apply to the product or components:
• None listed

Clean Air Act Section (112)
If listed below, components present at or above the de minimus level are hazardous air pollutants:
• None listed

CERCLA Reportable Quantities
If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:
• None listed

SARA Title III Section 311/312 Hazard Categories
The product meets the criteria only for the listed hazard classes:
• Acute Health Hazard

SARA Title III Section 313 Reportable Substances
If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
• None listed

Toxic Substances Control Act (TSCA)
If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:
• None listed

State Regulations

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:
• None listed
International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

- Europe (EINECS/ELINCS) Listed/registered
- USA (TSCA) Listed/registered
- Canada (DSL) Listed/registered
- Australia (AICS) Listed/registered
- Japan (MITI) Listed/registered
- Korea (TCCL) Listed/registered
- Philippines (PICCS) Listed/registered
- China Listed/registered

16. OTHER INFORMATION

HMIS Ratings

Health : 1
Flammability : 0
Physical Hazard : 0

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.