

SAFETY DATA SHEET

1. Identification

Product identifier: AEROSIL® 200

Chemical name: Silicon dioxide, chemically prepared

Other means of identification

Recommended use:

- Sealant
- Coloured printing inks
- Paints and varnishes.
- Adhesive
- Silicone rubber
- Cosmetic ingredient
- Cosmetics
- Agrochemicals
- Antiblocking agents
- Anticaking agent
- Coating agent
- Dispersant
- Flow-promoting agent.
- Reinforcing agent.
- Carrier

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Operations GmbH
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Germany

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Emergency

2. Hazard(s) identification

According to Hazardous Products Regulations
Not classified

Label Elements

Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: Not applicable
Precautionary Statements Not applicable

Other hazards: No data available.

3. Composition/information on ingredients

Chemical name:
 Silicon dioxide, chemically prepared

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)		112945-52-5	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: In case product dust is released: Possible discomfort: cough, sneezing Move to fresh air.
Skin Contact: Wash off with plenty of water and soap.
Eye contact: Possible discomfort is due to foreign substance effect. Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort: Consult an ophthalmologist.
Ingestion: Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

Personal Protection for First-aid Responders: No data available.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use full-force water jet in order to avoid dispersal and spread of the fire.

Specific hazards arising from the chemical: None known.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters: No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

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

Environmental Precautions: Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. see also section 7.
Safe handling advice:	Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If necessary: Local ventilation.
Contact avoidance measures:	No data available.
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 reuse.

Storage

Safe storage conditions:	Keep in a dry place. Take precautionary measures against static discharges.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
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Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls	Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. see also section 7.
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Individual protection measures, such as personal protective equipment

General information:	No data available.
Eye/face protection:	Safety glasses with side shields If dust occurs: basket-shaped glasses
Skin Protection	
Hand Protection:	Additional Information: Wear protective gloves made of the following materials: material, rubber, leather. Additional Information: The material thickness and rupture time data do not apply to non-solute solids / dusts.
Other:	No special protective equipment required. Preventive skin protection
Respiratory Protection:	No special protective equipment required. If dust occurs: Dust mask with P2 particle filter

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 reuse.

9. Physical and chemical properties
Appearance

Physical state:	solid
Form:	Powder
Color:	White
Odor:	odourless
Odor Threshold:	Not applicable
pH:	3,7 - 4,5 (40 g/l, 20 °C) Suspension
Melting Point:	Approximate 1.700 °C
Boiling Point:	No data available.
Flash Point:	Not applicable solid
Evaporation Rate:	Not applicable
Flammability (solid, gas):	Not applicable

Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Vapor pressure:	Not applicable
Relative vapor density:	Not applicable
Density:	Approximate 2,2 g/cm ³ (20 °C)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	> 1 mg/l
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Self Ignition Temperature:	Not applicable
Decomposition Temperature:	> 2.000 °C
Kinematic viscosity:	Not applicable solid
Dynamic viscosity:	Not applicable solid

Other information

Explosive properties:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
Minimum ignition energy:	Not applicable
Minimum ignition temperature:	Not applicable

10. Stability and reactivity
Reactivity:

No dangerous reaction known under conditions of normal use.

Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions are known if properly handled and stored.
Conditions to avoid:	No dangerous reaction known under conditions of normal use.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	None known. Stable under normal conditions. Product will not undergo hazardous polymerization.

11. Toxicological information

General information: Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): > 3.300 mg/kg Not toxic after single exposure; No deaths occurred.
 LD 50 (Rat): > 5.000 mg/kg (OECD 401) comparable product, Based on available data, the classification criteria are not met.

Dermal

Product: LD 50 (Rabbit): > 5.000 mg/kg comparable product, Based on available data, the classification criteria are not met.

Inhalation

Product: LC 0 (Rat): 0,139 mg/l (maximum concentration attainable in experiments), No deaths occurred., Based on available data, the classification criteria are

	not met.
Repeated dose toxicity	
Product:	No data available.
Skin Corrosion/Irritation	Not irritating
Product:	analogous OECD method (Rabbit): Not irritating Based on available data, the classification criteria are not met.
Serious Eye Damage/Eye Irritation	Not irritating
Product:	analogous OECD method (Rabbit): Not irritating Based on available data, the classification criteria are not met.
Respiratory or Skin Sensitization	
Product:	Not known.
Carcinogenicity	
Product:	No evidence that cancer may be caused.
Germ Cell Mutagenicity	
In vitro	
Product:	No data available.
In vivo	
Product:	No data available.
Reproductive toxicity	
Product:	no evidence of reproductiontoxic properties
Specific Target Organ Toxicity - Single Exposure	
Product:	no evidence for hazardous properties
Specific Target Organ Toxicity - Repeated Exposure	
Product:	no evidence for hazardous properties
Aspiration Hazard	
Product:	Not classified
Other effects:	An Expert Judgment stated that no classification is necessary based on present knowledge. No toxicological tests are available on the product.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 ((Brachydanio rerio), 96 h): > 10.000 mg/l The reported toxic effects relate to the nominal concentration.

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 24 h): > 1.000 mg/l The reported toxic effects relate to the nominal concentration.

Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

Product: No data available.

Chronic hazards to the aquatic environment:
Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

Product: No data available.

Persistence and Degradability
Biodegradation

Product: The methods for determining biodegradability are not applicable to inorganic substances.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Product: Not to be expected.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not applicable

Mobility in soil:

Product No remarkable mobility in soil is to be expected.

Other adverse effects: An Expert Judgment stated that no classification is necessary based on present knowledge.

13. Disposal considerations

Disposal methods: Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities.

Contaminated Packaging: Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations.

14. Transport information

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

15. Regulatory information

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16. Other information, including date of preparation or last revision

Issue Date: 11.03.2021

Version #: 1.16

Further Information: No data available.

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

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