

Product name: AEROSIL® 200 F

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Product name:**

AEROSIL® 200 F

Chemical name:

Silicon dioxide, chemically prepared

Additional identification**Chemical name:**

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)

Chemical formula:SiO₂**INDEX No.**

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CAS-No.

112945-52-5

EC No.

231-545-4

REACH Registration No.

01-2119379499-16-0000 (TPR)

1.2 Relevant identified uses of the substance or mixture and uses advised against**Identified uses:**Food additive
Feed additive
Sealant
Coloured printing inks
Paints and varnishes.
Adhesive
Silicone rubber
Antiblocking agents
Anticaking agent
Coating agent
Dispersant
Flow-promoting agent.
Reinforcing agent.
Carrier**Uses advised against:****1.3 Details of the supplier of the safety data sheet**Company Name : Evonik Operations GmbH
Rellinghauser Str. 1-11
45128 Essen
Germany

Telephone : +49 6181 59 4787

E-mail : sds-hu@evonik.com

1.4 Emergency telephone number:24-Hour Health : +49 7623 919191
Emergency**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Product name: AEROSIL® 200 F

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements Not applicable

2.3 Other hazards Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

SECTION 3: Composition/information on ingredients

Chemical name:

Silicon dioxide, chemically prepared

3.1 Substances

Chemical name Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)
INDEX No.:
CAS-No.: 112945-52-5
EC No.: 231-545-4
REACH Registration No.: 01-2119379499-16-0000 (TPR)

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)		112945-52-5	231-545-4	01-2119379499-16	No data available.	#

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

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

SECTION 4: First aid measures

4.1 Description of 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.

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4.2 Most important symptoms and effects, both acute and delayed: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: None known.

Treatment: No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 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.

5.2 Special hazards arising from the substance or mixture: None known.

5.3 Advice 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.

SECTION 6: Accidental release measures

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

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

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

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

6.4 Reference to other sections: Wear personal protective equipment; see section 8. Disposal considerations; see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: 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.

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7.2 Conditions for safe storage, including any incompatibilities: Keep in a dry place. Take precautionary measures against static discharges.

7.3 Specific end use(s): Applications; see Section 1. No further information available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) - Inhalable dust.	TWA	6 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) - Respirable dust.	TWA	2.4 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses with side-shields If dust occurs: basket-shaped glasses

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.

Skin and Body Protection: 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.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic 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

Product name: AEROSIL® 200 F

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
Flammability Limit - Upper (%):	Not applicable
Flammability 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

9.2 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

SECTION 10: Stability and reactivity

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

SECTION 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.

Product name: AEROSIL® 200 F

Ingestion: No data available.**11.1 Information on toxicological effects****Acute toxicity****Oral****Product:** LD 50 (Rat): > 5,000 mg/kg (OECD 401) comparable product, Based on available data, the classification criteria are not met.**Components:**
Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9) LD 50 (Rat): > 5,000 mg/kg**Dermal****Product:** LD 50 (Rabbit) > 5,000 mg/kg comparable product, Based on available data, the classification criteria are not met.**Components:**
Silicon dioxide,
chemically prepared
(CAS 112945-52-5
resp. 7631-86-9) LD 50 (Rabbit): > 5,000 mg/kg**Inhalation****Product:** No data available.**Components:**
Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9) No data available., Vapour
No data available., Dusts, mists and fumes**Repeated dose toxicity****Product:** No data available.**Components:**
Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9) No data available.**Skin Corrosion/Irritation:****Product:** Not irritating
analogous OECD method (Rabbit): Not irritating comparable product Based on available data, the classification criteria are not met.**Components:**
Silicon dioxide,
chemically prepared
(CAS 112945-52-5
resp. 7631-86-9) analogous OECD method (Rabbit): Not irritating**Serious Eye Damage/Eye Irritation:**

Not irritating

Product: analogous OECD method (Rabbit): Not irritating comparable product Based on available data, the classification criteria are not met.**Components:**

Product name: AEROSIL® 200 F

Silicon dioxide,
chemically prepared
(CAS 112945-52-5
resp. 7631-86-9)

analogous OECD method (Rabbit): Not irritating

**Respiratory or Skin
Sensitization:**

Product: Not known.

Components:

Silicon dioxide,
chemically prepared
(CAS 112945-52-5
resp. 7631-86-9)

No data available.

Germ Cell Mutagenicity

no evidence of mutagenic effects

In vitro

Product: No data available.

Components:

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

No data available.

In vivo

Product: No data available.

Components:

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

No data available.

Carcinogenicity

Product: No evidence that cancer may be caused.

Components:

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

No evidence that cancer may be caused.

Reproductive toxicity

Product: no evidence of reproductiontoxic properties

Components:

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

no evidence of reproductiontoxic properties

Specific Target Organ Toxicity - Single Exposure

Product: no evidence for hazardous properties

Components:

Product name: AEROSIL® 200 F

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: no evidence for hazardous properties

Components:

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

No data available.

Aspiration Hazard

Product: Not classified

Components:

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

Not applicable

Other adverse effects: An Expert Judgment stated that no classification is necessary based on present knowledge. No toxicological tests are available on the product.

SECTION 12: Ecological information

12.1 Toxicity
Acute toxicity
Fish

Product: LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l (OECD 203) The reported toxic effects relate to the nominal concentration.

Components

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

LC 50 (Danio rerio, 96 h): > 10,000 mg/l (OECD 203) The reported toxic effects relate to the nominal concentration.

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 24 h): > 1,000 mg/l (OECD 202) The reported toxic effects relate to the nominal concentration.

Components

Silicon dioxide,
chemically prepared
(CAS 112945-52-5 resp.
7631-86-9)

EC 50 (Daphnia magna, 24 h): > 1,000 mg/l (OECD 202) The reported toxic effects relate to the nominal concentration. literature

Toxicity to Aquatic Plants

Product: No data available.

Components

Silicon dioxide,

No data available.

Product name: AEROSIL® 200 F

chemically prepared
 (CAS 112945-52-5 resp.
 7631-86-9)

Toxicity to microorganisms

Product: No data available.

Components

Silicon dioxide,
 chemically prepared
 (CAS 112945-52-5 resp.
 7631-86-9) No data available.

Chronic Toxicity
Fish

Product: No data available.

Components

Silicon dioxide,
 chemically prepared
 (CAS 112945-52-5 resp.
 7631-86-9) No data available.

Aquatic Invertebrates

Product: No data available.

Components

Silicon dioxide,
 chemically prepared
 (CAS 112945-52-5 resp.
 7631-86-9) No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

Silicon dioxide,
 chemically prepared
 (CAS 112945-52-5 resp.
 7631-86-9) No data available.

12.2 Persistence and Degradability
Biodegradation

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

BOD/COD Ratio

Product No data available.

Components

Silicon dioxide,
 chemically prepared
 (CAS 112945-52-5 resp.
 7631-86-9) No data available.

12.3 Bioaccumulative potential

Product: Not to be expected.

Product name: AEROSIL® 200 F

- 12.4 Mobility in soil:** No remarkable mobility in soil is to be expected.
- 12.5 Results of PBT and vPvB assessment:** Not a PBT, vPvB substance as per the criteria of the REACH Regulation.
 Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Non-classified vPvB substance Non-classified PBT substance
- 12.6 Other adverse effects:** An Expert Judgment stated that no classification is necessary based on present knowledge.
- 12.7 Additional Information:** No ecotoxicological data is available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- General information:** No data available.
- Disposal methods:** No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. 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. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.
- Contaminated Packaging:** Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations.

SECTION 14: Transport information

- 14.1 UN number**
Not regulated as a dangerous good
- 14.2 UN proper shipping name**
Not regulated as a dangerous good
- 14.3 Transport hazard class(es)**
Not regulated as a dangerous good
- 14.4 Packing group**
Not regulated as a dangerous good
- 14.5 Environmental hazards**
Not regulated as a dangerous good
- 14.6 Special precautions for user**
Not applicable
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Product name: AEROSIL® 200 F

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment:

No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dosis/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Development; **OEL** - Occupational Exposure Limit; **PBT** - Persistent, bioaccumulative, toxic; **PNEC** - Predicted no effect concentration; **REACH** - REACH registration; **RID** - Convention concerning International Carriage by Rail; **SVHC** - Substances of Very High Concern; **TA** - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; **WGK** - Water Hazard Class

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3: none

Training information: No data available.

Product name: AEROSIL® 200 F

Revision Information

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

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