SAFETY DATA SHEET
Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: AEROSIL® 200
Chemical name: Silicon dioxide, chemically prepared

Other means of identification
CAS Number: 112945-52-5, 7631-86-9

Recommended restrictions
Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name: Evonik Corporation
299 Jefferson Road
Parsippany, NJ 07054
USA

Telephone: +1 973 929 8000
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E-mail: product-regulatory-services@evonik.com

Emergency telephone number:
24-Hour Health: +1 800 424 9300 (CHEMTREC - US & CANADA)
Emergency: 800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification
Not classified

Label Elements

Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: Not applicable
Precautionary Statements
3. Composition/information on ingredients

Chemical name:
Silicon dioxide, chemically prepared

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>Content in percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)</td>
<td>112945-52-5</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

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

The exact concentration has been withheld as a trade secret.

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:**
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. No information available.

**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 and effects, both acute and delayed

**Symptoms:**
None known.

**Hazards:**
No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:**
No hazards which require special first aid measures.

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

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

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

Accidental release measures: Avoid dust formation.

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

Environmental Precautions: Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. 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): No data available.

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 the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection. Use with adequate ventilation.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Take precautionary measures against static discharges. Keep containers tightly sealed and store in a dry, cool place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits
**Chemical Identity** | **Type** | **Exposure Limit Values** | **Source**
--- | --- | --- | ---
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) | PEL | 6 mg/m$^3$ | Source: 54 FR 2701

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

**Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**

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

**Skin Protection**

**Hand Protection:** Additional Information: Use impermeable gloves.

**Skin and Body Protection:** Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used.

**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.

**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**

**Information on basic physical and chemical properties**

**Appearance**

*Physical state:* solid

*Form:* Powder

*Color:* White

*Odor:* Odorless

*Odor Threshold:* Not applicable
Melting Point: Approximate 3,092 °F/1,700 °C
Boiling Point: No data available.

Flammability:
Upper/lower limit on flammability or explosive limits
Explosive limit - upper: Not applicable
Explosive limit - lower: Not applicable
Flash Point: Not applicable (solid)
Self Ignition Temperature: Not applicable
Decomposition Temperature: > 3,632 °F/2,000 °C
pH: 3.7 - 4.5 (40 g/l, 20 °C) Suspension

Viscosity
Dynamic viscosity: Not applicable solid
Kinematic viscosity: Not applicable solid
Flow Time: No data available.

Solubility(ies)
Solubility in Water: > 1 mg/l
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Vapor pressure: Not applicable
Relative density: No data available.
Density: Approximate 2.2 g/cm³ (68 °F/20 °C)
Bulk density: No data available.
Vapor density (air=1): Not applicable

Particle characteristics
Particle Size: No data available
Particle Size Distribution: No data available
Specific surface area: No data available.
Surface charge/Zeta potential: No data available.
Shape: No data available
Crystallinity: Crystallinity: amorphous;
Surface treatment: Surface treatment /Coatings: No;

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 temperature: Not applicable
Dust explosion properties: Not dust explosive
Evaporation Rate: Not applicable
Minimum ignition energy: 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. Operations that create dust.

Incompatible Materials: None known.

Hazardous Decomposition Products: None known.

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Inhalation: Information on effects are given below.

Skin Contact: Information on effects are given below.

Eye contact: Information on effects are given below.

Ingestion: Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral Product: 
LD 50 (Rat): > 3,300 mg/kg Not toxic after single exposure; No deaths observed.
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, 4 h): 0.139 mg/l (maximum concentration attainable in experiments), No deaths observed., Based on available data, the classification criteria are not met.

Repeated dose toxicity Product:
No negative effects.
No irreversible changes and no indication of silicosis.

Skin Corrosion/Irritation Product: 
analogous OECD method (Rabbit): Not irritating; Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation Product: 
Rabbit: Not irritating Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization Product: 
Not known.

Carcinogenicity Product: 
Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA. No evidence that cancer may be caused.
Germ Cell Mutagenicity

no evidence of mutagenic effects

No evidence of mutagenic effects reported in literature.

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: no evidence of reproduction toxic 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

Information on health hazards

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

12. Ecological information

Ecotoxicity:
Acute hazards to the aquatic environment:

Fish
Product: LC 50 (Brachydanio rerio (zebrafish), 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:
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

Bioconcentration Factor (BCF)
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.

Results of PBT and vPvB assessment:

Product: Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

Other adverse effects:

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

Additional Information: No ecotoxicological data is available for this product.

13. Disposal considerations

Disposal methods: Waste must be disposed of in accordance with federal, state, provincial and local regulations.

Contaminated Packaging: Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

14. Transport information

Domestic regulation

49 CFR
Not regulated as a dangerous good
Remarks: Not dangerous according to transport regulations.

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

**US Federal Regulations**

- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
  None present or none present in regulated quantities.

- **US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**
  None present or none present in regulated quantities.

- **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**
  None present or none present in regulated quantities.

- **CERCLA Hazardous Substance List (40 CFR 302.4):**
  None present or none present in regulated quantities.

- **Superfund Amendments and Reauthorization Act of 1986 (SARA)**
  Hazard categories
  Not classified

- **US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**
  None present or none present in regulated quantities.

- **US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting**
  None present or none present in regulated quantities.

- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**
  None present or none present in regulated quantities.

- **Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**
  None present or none present in regulated quantities.

**US State Regulations**

- **US. California Proposition 65**
  No ingredient requiring a warning under CA Prop 65.

### 16. Other information, including date of preparation or last revision
NFPA Hazard ID

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 03/27/2019
Version #: 1.6
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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