

**SAFETY DATA SHEET****AEROSIL® 200**

Material no.		Version	<b>4.1 / US</b>
Specification	<b>132138</b>	Revision date	<b>04/30/2015</b>
Order Number		Print Date	<b>01/05/2016</b>
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**1. Identification****1.1. Product identifier**

Trade name	AEROSIL® 200
Chemical Name	Silicon dioxide, chemically prepared
CAS-No.	112945-52-5, 7631-86-9

**1.2. Recommended use of the chemical and restrictions on use**

Relevant applications identified	Sealants Coloured printing inks Paints and varnishes. Adhesive Silicone rubber Cosmetic ingredient Cosmetics
Function	Agrochemicals Anticaking agent Antiblocking agents Coating agent Dispersing agent Flow-promoting agent. Reinforcing agent. Carrier

**1.3. Details of the supplier of the safety data sheet**

Company	Evonik Corporation USA 299 Jefferson Road Parsippany, NJ 07054-0677 USA
Telephone	973-929-8000
Telefax	973-929-8040
Email address	Product-Regulatory-Services@Evonik.com

**1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:**

<b>CHEMTREC - US &amp; CANADA:</b>	800-424-9300
<b>CHEMTREC MEXICO:</b>	01-800-681-9531
<b>CHEMTREC INTERNATIONAL:</b>	+1 703-527-3887 (collect calls accepted)
Product Regulatory Services	: 973-929-8060

**2. Hazards identification****2.1. Classification of the substance or mixture**

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Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

**2.2. Label elements**

Statutory basis Classification according to Regulation 29CFR 1910.1200  
Remarks Not a hazardous substance or mixture.

**2.3. Other hazards**

**Silicon dioxide, chemically prepared** Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

**3. Composition/information on ingredients****3.1. Substances**

• <b>Silicon dioxide, chemically prepared</b>	100%
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CAS-No. 112945-52-5

Remarks Not a hazardous substance or mixture.

**Other information**

A new CAS , 112945-52-5, has been assigned to amorphous, fumed silica to distinguish it from crystalline silica. According to the EPA, this product meets TSCA requirements and is listed on the TSCA inventory as silica with CAS 7631-86-9.

**3.2. Mixtures  
not applicable****4. First aid measures****4.1. Description of 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.

**4.2. Most important symptoms and effects, both acute and delayed****Symptoms**

None known

**4.3. Indication of any immediate medical attention and special treatment needed**

No hazards which require special first aid measures.

**5. Fire-fighting measures**

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**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**

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

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

**6.2. 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.

**6.3. Methods and material for containment and cleaning up**

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

**7. Handling and storage****7.1. Precautions for safe handling**

Use with adequate ventilation.

**7.2. Conditions for safe storage, including any incompatibilities****Advice on protection against fire and explosion**

Take precautionary measures against static discharges.

**Storage**

Keep containers tightly closed in a dry, cool place.

**8. Exposure controls/personal protection****8.1. Control parameters**

<b>• Silicon dioxide, chemically prepared</b>		
CAS-No.	112945-52-5	
	7631-86-9	
Control parameters	20 millions of particles per cubic foot of air	Time Weighted Average (TWA):(Z3)
Control parameters	0.8 mg/m <sup>3</sup>	Time Weighted Average (TWA):(Z3)
	The exposure limit is calculated from the equation, 80/(%SiO <sub>2</sub> ), using a value of 100% SiO <sub>2</sub> . Lower values of % SiO <sub>2</sub> will give higher exposure limits.	

**8.2. Exposure controls****Personal protective equipment**

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**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**

Use impermeable gloves.

**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.

**Protective measures**

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.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

physical state	solid
Colour	white
Form	powder
Odour	odorless
Odour Threshold	not applicable
pH	3.7 - 4.5 (40 g / l) (20 °C) (suspension)
Melting point/range	ca. 1700 °C
Boiling point/range	not determined
Flash point	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	not applicable

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Vapour density	not applicable	
Density	ca. 2.2 g/cm <sup>3</sup>	(20 °C)
Water solubility	> 1 mg/l	
Partition coefficient: n-octanol/water	not applicable	
Autoignition temperature	not applicable	
Thermal decomposition	> 2000 °C	
Viscosity, dynamic	not applicable	

**9.2. Other information**

Explosiveness	Not to be expected in view of the structure
Minimum ignition energy	not applicable
Tapped density	ca. 50 g / l Method: DIN / ISO 787/11

**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**

Possibility of hazardous reactions See Sect. 10.1 Reactivity.

**10.4. Conditions to avoid**

No dangerous reaction known under conditions of normal use.  
Operations that create dust.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

None known.

Stable under normal conditions.  
Product will not undergo hazardous polymerization.

**11. Toxicological information****11.1. Information on toxicological effects**

Acute oral toxicity	LD50 Rat: > 3300 mg/kg No deaths occurred.
	LD50 Rat: > 5000 mg/kg

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	Method:	OECD Test Guideline 401 comparable product
Acute inhalation toxicity	LC0 Rat:	0.139 mg/l / 4 h Method: analogous OECD method (maximum concentration attainable in experiments) No deaths occurred.
Acute dermal toxicity	LD50 Rabbit:	> 5000 mg/kg comparable product
Skin irritation	Rabbit not irritating Method:	analogous OECD method
Eye irritation	Rabbit not irritating Method:	analogous OECD method
Sensitization		not known
Repeated dose toxicity	Oral	No negative effects.
	Inhalation	No irreversible changes and no indication of silicosis.
Assessment of STOT single exposure		no evidence for hazardous properties
Assessment of STOT repeat exposure		no evidence for hazardous properties
Risk of aspiration toxicity		No aspiration toxicity classification
Mutagenicity assessment		no evidence of mutagenic effects  No evidence of mutagenic effects reported in literature.
Carcinogenicity		No negative effects.
carcinogenicity assessment		Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Toxicity to reproduction		No negative effects.
Human experience		Silicosis or other product specific illnesses of the respiratory tract have not been reported.

**12. Ecological information****12.1. Toxicity**

Toxicity to fish	LC50 (Brachydanio rerio):	> 10000 mg/l / 96 h Method: OECD 203 The reported toxic effects relate to the nominal concentration.
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Toxicity in aquatic invertebrates      EC50 Daphnia magna: > 1000 mg/l / 24 h  
Method: OECD 202  
The reported toxic effects relate to the nominal concentration.

**12.2. Persistence and degradability**

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

**12.3. Bioaccumulative potential**

Bioaccumulation      Not to be expected.

**12.4. Mobility in soil**

Mobility      No remarkable mobility in soil is to be expected.

**12.5. Other adverse effects**

Further Information      The classification criteria are not met based on the available data.

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**13. Disposal considerations****13.1. Waste treatment methods****Product**

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

**Uncleaned packaging**

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

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**14. Transport information****Not dangerous according to transport regulations.**

- 14.1. UN number:      --  
14.2. UN proper shipping name:      --  
14.3. Transport hazard class(es):      --  
14.4. Packing group:      --  
14.5. Environmental hazards (Marine pollutant):      --  
14.6. Special precautions for user:      Yes  
Not dangerous according to transport regulations.

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**15. Regulatory information****US Federal Regulations**

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**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:

- No SARA Hazards

**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

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

**HMIS Ratings**

Health : 1



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Flammability : 0  
Physical Hazard : 0

**NFPA Ratings**

Health : 1  
Flammability : 0  
Reactivity : 0

**16. Other information****Further information**

Revision date 04/30/2015

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

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**Legend**

<b>ACC</b>	American Chemistry Council
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ACS</b>	Advisory Committee on Sustainability
<b>ADI</b>	Acceptable Daily Intake
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BOD</b>	Biochemical oxygen demand
<b>c.c.</b>	closed cup
<b>CAO</b>	Cargo Aircraft Only
<b>Carc</b>	Carcinogen
<b>CAS</b>	Chemical Abstract Services
<b>CDN</b>	Canada
<b>CEPA</b>	Canadian Environmental Protection Act
<b>CERCLA</b>	Comprehensive Environmental Response – Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>COD</b>	Chemical oxygen demand
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>DOT</b>	Department of Transportation
<b>EC50</b>	half maximal effective concentration
<b>EPA</b>	Environmental Protection Agency
<b>ErC50</b>	Reduction of Growth Rate
<b>ERG</b>	Emergency Response Guide Book
<b>FDA</b>	Food and Drug Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>HCS</b>	Hazard Communication Standard
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>IBC</b>	Intermediate Bulk Container
<b>ICAO-TI</b>	International Civil Aviation Organization- Technical Instructions
<b>ICCA</b>	International Council of Chemical Association
<b>ID</b>	Identification number
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IUPAC</b>	International Union of Pure and Applied Chemistry
<b>ISO</b>	International Organization For Standardization
<b>LC50</b>	50 % Lethal Concentration
<b>LD50</b>	50 % Lethal Dose
<b>L(EC50)</b>	LC50 or EC50
<b>LOAEL</b>	Low est observed adverse effect level
<b>LOEL</b>	Low est observed effect level
<b>MARPOL</b>	International Convention for the Prevention of Pollution from Ships
<b>NFPA</b>	National Fire Protection Association
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>RQ</b>	Reportable Quantity
<b>SDS</b>	Safety Data Sheet
<b>STOT</b>	Specific Target Organ Toxicity
<b>UN</b>	United Nations
<b>vPvB</b>	very persistent, very bioaccumulative



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**voc** volatile organic compounds  
**WHMIS** Workplace Hazardous Materials Information System  
**WHO** World Health Organization

