

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** AEROSIL® R 9200

**Chemical name:**

Silane, dichlorodimethyl-, reaction products with silica

**Other means of identification**

**CAS Number:** 68611-44-9

**Recommended restrictions**

**Recommended use:** Silicone rubber Sealant Paints and varnishes. Adhesive Coating agent Toner

**Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor Information**

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

Telephone : +1 973 929 8000

Fax : +1 973 929 8040

E-mail : product-regulatory-services@evonik.com

**Emergency telephone number:**

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : +1 800 681 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**

Hazard(s) not otherwise classified (HNOC): None.

### 3. Composition/information on ingredients

**Chemical name:**

Silane, dichlorodimethyl-, reaction products with silica

**Substances**

Chemical Identity	CAS number	Content in percent (%) <sup>*</sup>
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	<=100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

A specific chemical identity and/or percentage of composition 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 victims into 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.

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

**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 hazards which require special first aid measures.

### 5. Fire-fighting measures

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, foam, CO<sub>2</sub>, 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:** May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**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, 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.

**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.

**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:** Take precautionary measures against static discharges. Keep containers tightly closed 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/m3	Source: 54 FR 2701
	PEL	20 millions of	Source: 54 FR 2701

		particles per cubic foot of air	
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**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:**

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.

**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**

**Appearance**

<b>Physical state:</b>	solid
<b>Form:</b>	Powder
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not applicable
<b>pH:</b>	3.0 - 5.0 (40 g/l, 20 °C) 1: 1 in suspension
<b>Melting Point:</b>	Not applicable Decomposition
<b>Boiling Point:</b>	Not applicable Decomposition
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Not applicable

<b>Explosive limit - upper (%):</b>	not determined
<b>Explosive limit - lower (%):</b>	not determined
<b>Vapor pressure:</b>	Not applicable
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	approx. 2 g/cm <sup>3</sup> (20 °C)
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	hardly soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>Self Ignition Temperature:</b>	Not applicable

<b>Decomposition Temperature:</b>	> 300 °C
<b>Kinematic viscosity:</b>	No data available.
<b>Dynamic viscosity:</b>	Not applicable

**Other information**

<b>Explosive properties:</b>	not determined
<b>Oxidizing properties:</b>	not determined
<b>Minimum ignition energy:</b>	Not applicable
<b>Minimum ignition temperature:</b>	> 600 °C

**10. Stability and reactivity**

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	See Sect. 10.1 Reactivity.
<b>Conditions to avoid:</b>	Hydrophobic properties disappear at temperatures > 300°C
<b>Incompatible Materials:</b>	No further information available
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide. Carbon Dioxide. organic products of decomposition

**11. Toxicological information**

**General information:** Silicosis or other product specific illnesses of the respiratory tract have not been reported.

**Information on likely routes of exposure**

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

**Information on toxicological effects**
**Acute toxicity (list all possible routes of exposure)**

<b>Oral Product:</b>	LD 50 (Rat): > 5,000 mg/kg comparable product
<b>Dermal Product:</b>	

**Inhalation**

**Product:** LC0 (Rat): 0.477 mg/l (maximum concentration attainable in experiments), comparable product

**Repeated dose toxicity**

**Product:** No negative effects.  
No negative effects.

**Skin Corrosion/Irritation**

**Product:** Not irritating. literature (Rabbit): Not irritating.

**Serious Eye Damage/Eye Irritation**

**Product:** Not irritating. Rabbit: Not irritating.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Components:**

Silane,  
dichlorodimethyl-,  
reaction products with  
silica

Not Classified

**Carcinogenicity**

**Product:** Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:****US. National Toxicology Program (NTP) Report on Carcinogens:****US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):****Germ Cell Mutagenicity****In vitro**

**Product:** Ames test (literature): Negative

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-,  
reaction products with  
silica

no evidence of reproductiontoxic properties

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-,  
reaction products with  
silica

Not classified no evidence for hazardous properties

**Specific Target Organ Toxicity - Repeated Exposure**

<b>Product:</b>	No data available.
<b>Components:</b>	
Silane, dichlorodimethyl-, reaction products with silica	Not classified no evidence for hazardous properties

**Aspiration Hazard**

**Product:** No data available.

**Components:**  
Silane, dichlorodimethyl-,  
reaction products with  
silica

Not classified

**Other effects:** No data available.

**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:**

**Fish**  
**Product:** LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l

**Aquatic Invertebrates**  
**Product:** EC 50 (Daphnia magna, 24 h): > 10,000 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Toxicity to Aquatic Plants**  
**Product:** IC 50 (Desmodesmus subspicatus (green algae), 72 h): > 10,000 mg/l

**Persistence and Degradability**

**Biodegradation**  
**Product:** The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy 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:** No remarkable mobility in soil is to be expected.

**Other adverse effects:** The data we have at our disposal do not necessitate identification concerning environmental hazard.

### 13. Disposal considerations

**Disposal methods:** Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

**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)**

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

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

**SARA 311/312 Hazardous Chemical**

Chemical Identity

Threshold Planning Quantity

**SARA 313 (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.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

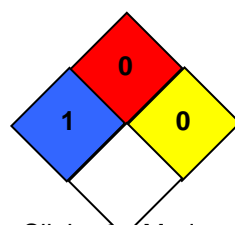
No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

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

**NFPA Hazard ID**



- Flammability
- Health
- Reactivity
- Special hazard.

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

<b>Issue Date:</b>	07/09/2019
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<b>Further Information:</b>	No data available.
<b>Revision Information:</b>	Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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