

## SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

### 1. Identification

**Product identifier:** AEROSIL® R 972 V

**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 Coloured printing inks 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 8042

**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.

<b>Specific hazards arising from the chemical:</b>	May be released in case of fire: carbon monoxide, carbon dioxide, formaldehyde and methane.
<b>Special protective equipment and precautions for firefighters</b>	
<b>Special fire fighting procedures:</b>	No data available.
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment.
<b>Accidental release measures:</b>	Avoid dust formation.
<b>Methods and material for containment and cleaning up:</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal.
<b>Environmental Precautions:</b>	Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

#### 7. Handling and storage

<b>Handling</b>	
<b>Technical measures (e.g. Local and general ventilation):</b>	No data available.
<b>Safe handling advice:</b>	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.
<b>Contact avoidance measures:</b>	No data available.
<b>Hygiene measures:</b>	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.
<b>Storage</b>	
<b>Safe storage conditions:</b>	Take precautionary measures against static discharges. Keep containers tightly closed in a dry, cool place.
<b>Safe packaging materials:</b>	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 <sup>3</sup>	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

<b>Eye/face protection:</b>	Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Additional Information: Use impermeable gloves.
<b>Skin and Body Protection:</b>	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.
<b>Respiratory Protection:</b>	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.
<b>Hygiene measures:</b>	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

<b>Appearance</b>	
<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>	3.7 - 5.5 (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>	> 1 mg/l
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>Self Ignition Temperature:</b>	Not applicable



Decomposition Temperature: > 300 °C  
 Kinematic viscosity: No data available.  
 Dynamic viscosity: Not applicable  
 Other information  
 Explosive properties: not determined  
 Oxidizing properties: not determined  
 Minimum ignition energy: not determined  
 Minimum ignition temperature: > 400 °C (VDI 2263)

#### 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: None if processed as per stipulations  
 Conditions to avoid: Hydrophobic properties disappear at temperatures > 300°C  
 Incompatible Materials: None known.  
 Hazardous Decomposition Products: 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  
 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): > 5,000 mg/kg comparable product  
 Dermal Product: No data available.

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

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

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: Not known.

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 evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure Product: no evidence for hazardous properties

Aspiration Hazard Product: 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 The reported toxic effects relate to the nominal concentration.

**Aquatic Invertebrates**

**Product:** EC 50 (Daphnia magna, 24 h): > 10,000 mg/l The reported toxic effects relate to the nominal concentration.

**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 The reported toxic effects relate to the nominal concentration.

**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, provincial and local regulations.

**Contaminated Packaging:**

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

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**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**

**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**

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**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.

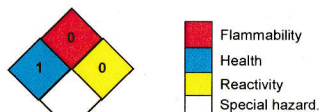
**US. Massachusetts RTK - Substance List**  
No ingredient regulated by MA Right-to-Know Law present.

**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**



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

**Issue Date:** 07/09/2019

**Version #:** 1.1

**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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