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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

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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 (%)*
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	<=100%

^{*} 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, 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.

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Specific hazards arising from

the chemical:

May be released in case of fire: carbon monoxide, carbon dioxide,

formaldehyde and methane.

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	Туре	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



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parti	ticles per
cubic	pic foot of
	air

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

Physical state: solid
Form: Powder
Color: White
Odor: Odorless

Odor Threshold: Not applicable

pH: 3.7 - 5.5 (40 g/l, 20 °C) 1: 1 in suspension

Melting Point:Not applicable DecompositionBoiling Point:Not applicable Decomposition

Flash Point:Not applicableEvaporation Rate:Not applicableFlammability (solid, gas):Not applicable

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

Not applicable

No data available.

Density: approx. 2 g/cm3 (20 °C) **Relative density:** No data available.

Solubility(ies)

Solubility in Water: > 1 mg/l

Solubility (other):

Partition coefficient (n-octanol/water):

Self Ignition Temperature:

Not applicable

Not applicable



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Decomposition Temperature: > 300 °C

Kinematic viscosity:

Dynamic viscosity:

No data available.

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.

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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.

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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

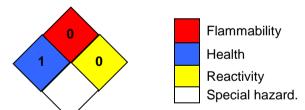
No ingredient regulated by PA Right-to-Know Law present.

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

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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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