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SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: AEROSIL® R 202

Chemical name:

Silicones and siloxanes, dimethyl-, reaction products with silica

Other means of identification

CAS Number: 67762-90-7

Recommended restrictions

Recommended use: Coating agent Sealant Reinforcing agent. Cosmetics

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation

2 Turner Place

Piscataway, NJ 08854

USA

Telephone : +1 732 981 5000

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

Environmental Hazards

Chronic hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement:

Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Avoid release to the environment.

Disposal: Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.



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Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Chemical name:

Silicones and siloxanes, dimethyl-, reaction products with silica

Substances

Composition information of impurities and stabilizers

Common name and synonyms	CAS number	Content in percent (%)*
	556-67-2	0.01 - <0.1%
	name and	name and synonyms CAS number

^{*} 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

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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:

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

dioxide, organic products of decomposition.

Special protective equipment and precautions for fire-fighters

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.

Storage

Safe storage conditions: Protect from heat and exposure to direct sunlight Keep

containers tightly closed in a dry, cool and well-ventilated

place. Take precautionary measures against static

discharges. When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be

essentially free of product.

Safe packaging materials: No data available.



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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
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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: 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.

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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: Not applicable Decomposition

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Boiling Point:Not applicable Decomposition

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:

Explosive limit - lower:

No data available.

No data available.

Not applicable (solid)

Self Ignition Temperature: Not determined.

Decomposition Temperature: > 572 °F/> 300 °C

pH: 4 - 6 (40 g/l, 20 °C) 1: 1 in suspension

Viscosity

Dynamic viscosity:

Kinematic viscosity:

Not applicable solid

Not applicable solid

No data available.

Solubility(ies)

Solubility in Water: > 1 mg/l

Solubility (other): No data available.

Partition coefficient (n- Not applicable

octanol/water):

Vapor pressure:Not applicableRelative density:No data available.

Density: Approximate 2 g/cm3 (68 °F/20 °C)

Bulk density: No data available. Vapor density (air=1): Not applicable

Particle characteristics

Particle Size:

Particle Size Distribution:

Specific surface area:

Surface charge/Zeta potential:

No data available

No data available.

No data available.

No data available.

Crystallinity: Crystallinity: amorphous;

Surface treatment: Surface treatment /Coatings: Yes;

Other information

Explosive properties: Not to be expected in view of the structure

Oxidizing properties: Not determined.

Minimum ignition temperature: Approximate 860 °F/460 °C (VDI 2263)

Evaporation Rate: 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: Hydrophobic properties disappear at temperatures >

300°C

Incompatible Materials: None known.



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Hazardous Decomposition

Products:

None known.

11. Toxicological information

General information: Silicosis or other product specific illnesses of the respiratory tract have not

been reported.

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): > 5,000 mg/kg (OECD 401) comparable product

LD 0 (Rat): 1,000 mg/kg (OECD 401) No deaths observed., Based on

available data, the classification criteria are not met.

Dermal

Product: LD 50 (Rat): > 2,000 mg/kg (OECD 402) Not toxic after single exposure,

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.

Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Components:

octamethylcyclotetrasilox

ane

NOAEC (Rat(Female, Male), Inhalation(Vapour), 5 days/weeks, 6

hours/day): 1.8 mg/l Subchronic toxicity

LOAEC (Rat(Female, Male), Inhalation(Vapour), 5 days/weeks, 6

hours/day): 8.5 mg/l chronic

NOAEC (Rat(Female, Male), Inhalation(Vapour), 5 days/weeks, 6

hours/day): 0.36 mg/l Subacute toxicity

Skin Corrosion/Irritation

Product: Not irritating OECD 404 (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. No evidence that cancer may be caused.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

no evidence of mutagenic effects

In vitro

Product: Ames test (Literature): negative;

In vivo

Product: No data available.

Components:

octamethylcyclotetrasilox Micronucleus test (OECD 474) Inhalation - vapor (Rat): negative

Chromosomal aberration (OECD 478) Oral (Rat): negative

Chromosomal aberration (OECD 475) Inhalation - vapor (Rat, Female,

Male): negative

Reproductive toxicity

Product: 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

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

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Product: LC 50 (Brachydanio rerio (zebrafish), 96 h): > 10,000 mg/l The reported toxic

effects relate to the nominal concentration, tested substance: Silicon dioxide,

derived from chemical synthesis

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 24 h): > 1,000 mg/l The reported toxic effects relate

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to the nominal concentration. tested substance: Silicon dioxide, derived from

chemical synthesis

Toxicity to Aquatic Plants

Product: No data available.

Components:

octamethylcyclotetrasilox

ane

EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μg/l (US-EPA-

method)

EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µg/l (US-EPA-

method)

Toxicity to microorganisms

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

octamethylcyclotetrasilo

xane

NOEC (Oncorhynchus mykiss, 93 d): 4.4 µg/l (US-EPA-method)

Aquatic Invertebrates

Product: No data available.

Components:

octamethylcyclotetrasilo

xane

NOEC (Daphnia magna, 21 d): 15 μ g/l (EPA OTS 797.1330)

Lowest Observed Effect Concentration (Daphnia magna, 21 d): 15 μ g/I (EPA

OTS 797.1330)

EC 50 (Daphnia magna, 21 d): > 15 μ g/l (EPA OTS 797.1330)

Toxicity to Aquatic Plants

Product:

No data available.

Components: octamethylcyclotetrasilox

ane

NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 µg/l (US-EPA-

method)

Toxicity to microorganisms

Product: No data available.

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:

Product No remarkable mobility in soil is to be expected.

Results of PBT and vPvB assessment:

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

Other adverse effects:

Other hazards

Product: The properties of this product which are characteristics posing a

threat to the environment have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".

Harmful to aquatic life with long lasting effects.

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.



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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.

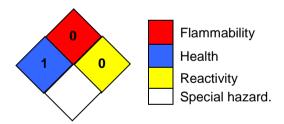
US State Regulations

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: 03/19/2019

Version #: 2.0

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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