

Revision Date: 07/08/2024

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: AEROSIL® R 208

Chemical name:

Silicones and siloxanes, dimethyl-, reaction products with silica

Other means of identification

CAS Number: 67762-90-7

Recommended restrictions

Recommended use: Sealant Reinforcing agent. Toner Coatings

Restrictions on use: Not determined.

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

OSHA hazard(s)

Combustible dust

Label Elements

Hazard Symbol: No symbol

Signal Word: Warning

Hazard Statement: May form combustible dust concentrations in air.

Precautionary Statements



Revision Date: 07/08/2024

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Chemical name:

Silicones and siloxanes, dimethyl-, reaction products with silica

Substances

Composition Comments: The components are not hazardous or are below required

disclosure limits.

4. First-aid measures

Description of 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

Unsuitable extinguishing media: Do not use full-force water jet in order to avoid dispersal and

spread of the fire.



Revision Date: 07/08/2024

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 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. Avoid dust formation.

Accidental release measures: No data available.

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: Ensure suitable suction/aeration at the work place and with

operationalmachinery.Local ventilation if necessary.

Local/Total ventilation:No data available.

Safe handling advice: Use with adequate ventilation. 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.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: 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. Protect from heat and exposure to direct sunlight Keep containers tightly closed in a dry, cool and

well-ventilated place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection



Revision Date: 07/08/2024

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

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.

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 DecompositionBoiling Point:Not applicable Decomposition

Flammability: May form combustible dust concentrations in air.

Upper/lower limit on flammability or explosive limits



Revision Date: 07/08/2024

No data available. **Explosive limit - upper: Explosive limit - lower:** Method: VDI 2263

500 g/m3

see Explosiveness

Flash Point: Not applicable (solid)

752 °F/400 °C **Auto-ignition temperature:**

Method: VDI 2263

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

4.5 - 6.5 at 68 °F/20 °C :Ha

Concentration: 40 g/l 1: 1 in suspension

Viscosity

Dynamic viscosity: Not applicable (solid) Kinematic viscosity: Not applicable (solid) Flow Time: No data available.

Solubility(ies)

Solubility in Water: > 1 mg/l

Solubility (other): No data available. Partition coefficient (n-octanol/water): Not applicable Vapor pressure: Not applicable Relative density: No data available.

Density: **Approximate**

2 g/cm3 at 68 °F/20 °C

Bulk density: No data available. Vapor density (air=1): No data available.

Other information

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

Peroxides: Not applicable 500 g/m3

Minimum Explosible Concentration

(MEC): Method: VDI 2263

1 m3 standard container

ST-1 **Dust explosion properties: Dust Explosion Description Number** 8.4 m.b_/s

Kst:

Evaporation Rate: Not applicable Minimum ignition energy: > 1 kJ<= 10 kJ

> Method: VDI 2263 1 m3 standard container

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal

use.

Chemical Stability: Stable under recommended storage conditions.

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Revision Date: 07/08/2024

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.

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 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, Female, Male, > 5,000 mg/kg, OECD 401, (analogy)

Dermal

Product: LD 50, Rabbit, > 5,000 mg/kg, (analogy)

Inhalation

Product: LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, OECD 436, Dust and mist,

(analogy)

Repeated dose toxicity

Product: NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1,000 mg/kg, No

negative effects. (analogy)

Skin Corrosion/Irritation

Product: OECD 404, (Rabbit), Not irritating, (analogy)

Serious Eye Damage/Eye Irritation

Product: analogous OECD method, Rabbit, Not irritating, (analogy)

Respiratory or Skin Sensitization

Product: Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin

sensitizer., (analogy)

Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.,

(analogy)

Carcinogenicity

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

OSHA. No evidence that cancer may be caused.



Revision Date: 07/08/2024

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 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

no evidence of mutagenic effects

In vitro

Product: gene mutation test, OECD 471: , negative, (analogy)

gene mutation test, OECD 490: , negative, (analogy) Chromosomal aberration, OECD 473: , negative, (analogy)

In vivo

Product: Chromosomal aberration, OECD 475, Oral, Rat, Male, negative,

(analogy)

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 applicable

Information on health hazards

Other hazards

Product: Based on available data, the classification criteria are not met.;

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/IOECD 203, The reported

toxic effects relate to the nominal concentration. (analogy)

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 24 h, > 1,000 mg/IOECD 202, The reported toxic

effects relate to the nominal concentration. (analogy)



Revision Date: 07/08/2024

Toxicity to Aquatic Plants

Product: EC 50, Desmodesmus subspicatus (green algae), 72 h, > 173 mg/l,

OECD 201, (analogy)

Toxicity to microorganisms

Product: EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to microorganisms

Product: EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

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: , Not applicable

Mobility in soil:

Product: No remarkable mobility in soil is to be expected.

Results of PBT and vPvB assessment:

Product: No data available.

Other adverse effects:

Other hazards

Product: 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



Revision Date: 07/08/2024

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 (on the basis of current knowledge of the product composition).

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 (on the basis of current knowledge of the product composition).

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Combustible dust

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 (on the basis of current knowledge of the product composition).



Revision Date: 07/08/2024

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

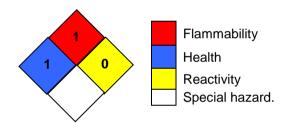
US State Regulations

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

Version #: 1.3

Generation date: 07/08/2024

Date of first report version: 03/15/2019

Abbreviations and acronyms:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS -Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading



Revision Date: 07/08/2024

Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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