

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: AEROSIL® 380

Chemical name:

Silicon dioxide, chemically prepared

Other means of identification

CAS Number: 112945-52-5, 7631-86-9

Recommended restrictions

Recommended use: Sealant Coloured printing inks Paints and varnishes. Adhesive Silicone rubber
Antiblocking agents Anticaking agent Dispersant Carrier

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
2 Turner Place
Piscataway, NJ 08854
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 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:

Silicon dioxide, chemically prepared

Substances

Chemical Identity	CAS number	Content in percent (%) [*]
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	112945-52-5	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:** No data available.

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.

Specific hazards arising from the chemical: None known.

Special protective equipment and precautions for firefighters

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

Special protective equipment for fire-fighters: No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

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. Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

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

Physical state: solid
Form: Powder
Color: White
Odor: Odorless
Odor Threshold: Not applicable
pH: 3.7 - 4.5 (40 g/l, 20 °C) Suspension
Melting Point: approx. 1,700 °C
Boiling Point: not determined
Flash Point: Not applicable solid
Evaporation Rate: Not applicable
Flammability (solid, gas): Not applicable

Explosive limit - upper (%): Not applicable
Explosive limit - lower (%): Not applicable
Vapor pressure: Not applicable
Vapor density (air=1): Not applicable
Density: approx. 2.2 g/cm³ (20 °C)
Relative density: No data available.
Solubility(ies)
Solubility in Water: > 1 mg/l
Solubility (other): No data available.
Partition coefficient (n-octanol/water): Not applicable
Self Ignition Temperature: Not applicable

Decomposition Temperature: > 2,000 °C
Kinematic viscosity: Not applicable solid
Dynamic viscosity: Not applicable solid

Other information

Explosive properties: Not to be expected in view of the structure
Oxidizing properties: Not to be expected in view of the structure
Minimum ignition energy: Not applicable
Minimum ignition temperature: 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: No dangerous reaction known under conditions of normal use. Operations that create dust.
Incompatible Materials: None known.
Hazardous Decomposition Products: None known.

11. Toxicological information**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: LD 50 (Rabbit): > 5,000 mg/kg comparable product
Inhalation Product: LC0 (Rat): 0.139 mg/l (maximum concentration attainable in experiments),

No deaths occurred., comparable product, Based on available data, the classification criteria are not met.

Repeated dose toxicity**Product:**

No negative effects.
No irreversible changes and no indication of silicosis.

Skin Corrosion/Irritation**Product:**

not irritating analogous OECD method (Rabbit): not irritating comparable product Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation**Product:**

not irritating Rabbit: not irritating comparable product Based on available data, the classification criteria are not met.

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.

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:**

No data available.

In vivo**Product:**

No data available.

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

Other effects:

No toxicological tests have been conducted with the product itself.

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): > 1,000 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: No data available.

Persistence and Degradability**Biodegradation**

Product: The methods for determining biodegradability are not applicable 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:

An Expert Judgment stated that no classification is necessary based on present knowledge.

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)

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

None present or none present in regulated quantities.

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

Chemical Identity

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

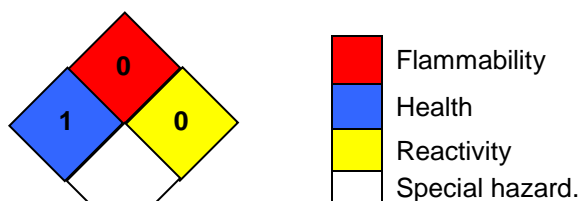
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)

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 #: 1.3

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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