

Revision Date: 12/07/2021

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: AEROSIL® R 812 S

Chemical name:

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Other means of identification

CAS Number: 68909-20-6

Recommended restrictions

Recommended use: Paints and varnishes. Toner Flow-promoting agent. Cosmetics Silicone rubber

Reinforcing agent.

Restrictions on use: Not determined.

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

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Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Chemical name:

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica		68909-20-6	98 - 100%

^{*} 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

Water spray, foam, CO2, dry powder. Adapt fire-extinguishing measures to media: surroundings

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Unsuitable extinguishing

media:

Do not use full-force water jet in order to avoid dispersal and spread of the

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:

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

can build up pressure if exposed to heat (fire). Cool with water spray.

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: Take precautionary measures against static discharges. Keep containers

tightly sealed and store in a dry, cool place

Safe packaging materials: No data available.

8. Exposure controls/personal protection

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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

No data available.

Controls

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: No special protective equipment required. Preventive skin 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 Decomposition **Boiling Point:** Not applicable Decomposition

Flammability: Not applicable

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: Not determined. **Explosive limit - lower:** Not determined. Flash Point: Not applicable

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Self Ignition Temperature: Not applicable **Decomposition** > 572 °F/> 300 °C

Temperature:

5.5 - 7.5 (40 g/l, 68 °F/20 °C) 1: 1 in suspension

Viscosity

pH:

Dynamic viscosity:Not applicable solidKinematic viscosity:Not applicable solidFlow Time: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): No data available.

Particle characteristics

Particle Size:

Particle Size Distribution:

No data available

No data available

No data available.

Surface charge/Zeta

No data available.

potential:

Shape: 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 to be expected in view of the structure

Minimum ignition

986 °F/530 °C (VDI 2263)

temperature:

Dust explosion properties: Not dust explosive **Evaporation Rate:** No data available.

Minimum ignition energy: > 10 kJ

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.

Hazardous Decomposition

Products:

Carbon Monoxide. Carbon Dioxide. organic products of decomposition

None known.

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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.

Eve 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): > 2,000 mg/kg (OECD 401) Not toxic after single exposure;

Limit Test, No deaths observed.. Based on available data, the classification

criteria are not met., comparable product

Dermal

Product: No data available.

Components:

Silanamine, 1,1,1-No data available. trimethyl-N-

(trimethylsilyl)-, hydrolysis products with

silica

Inhalation

Product: No data available.

Components:

trimethyl-N-

Silanamine, 1,1,1-Not toxic after single exposure; No data available., Dusts, mists and fumes

(trimethylsilyl)-,

hydrolysis products with

silica

Repeated dose toxicity

Product: No data available.

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: Maximization Test, OECD 406 (Guinea Pig): Not sensitising Based on

available data, the classification criteria are not met. comparable product

Not toxic after single exposure; No data available., Vapour

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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Germ Cell Mutagenicity

In vitro

Product: Ames test (Literature): negative;

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

Information on health hazards

Other hazards

Product: An Expert Judgment stated that no classification is necessary

based on present knowledge.; No toxicological tests are

available on the product.;

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (Brachydanio rerio (zebrafish), 96 h): > 1,000 mg/l The reported toxic

effects relate to the nominal concentration. tested substance: comparable

product

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 48 h): > 100 mg/l Limit Test The reported toxic

effects relate to the nominal concentration. tested substance: comparable

product

Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

Product: EC 50 (activated sludge): > 1,000 mg/l (OECD 209) The reported toxic

effects relate to the nominal concentration. tested substance: comparable

product

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

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Product: No data available.

Toxicity to microorganisms

Product: EC 50 (activated sludge): > 1,000 mg/l (OECD 209) The reported toxic

effects relate to the nominal concentration. tested substance: comparable

product

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:

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

Other adverse effects:

Other hazards

Product: An Expert Judgment stated that no classification is necessary

based on present knowledge.

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.

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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.

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

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.

US. New Jersey Worker and Community Right-to-Know Act

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

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US. Massachusetts RTK - Substance List

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

US. Pennsylvania RTK - Hazardous Substances

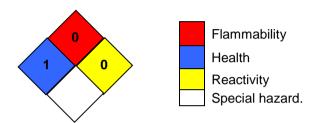
No ingredient regulated by PA Right-to-Know Law present.

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

12/07/2021 Issue Date:

Version #: 1.2

Further Information: No data available.

Changes since the last version are highlighted in the margin. This version **Revision Information**

replaces all previous versions.

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