

Revision Date: 11/12/2021

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

# 1. Identification

Product identifier: AEROSIL® E 812

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: For industrial use Restrictions on use: Not 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** 

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.



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# 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	<=100%

<sup>\*</sup> 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, C

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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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

#### **Control Parameters**

#### **Occupational Exposure Limits**

None of the components have assigned exposure limits.



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# **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:solidForm:PowderColor:WhiteOdor:odorless

Odor Threshold: Not applicable

Melting Point:Not applicable DecompositionBoiling 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

Self Ignition Temperature: Not applicable

Decomposition > 572 °F/> 300 °C

Temperature:

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:Ha 5.5 - 7.5 (40 g/l, 68 °F/20 °C) 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:** hardly soluble Solubility (other): No data available. Partition coefficient (n-Not applicable

octanol/water):

Vapor pressure: Not applicable Relative density: No data available.

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

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

Particle characteristics

Particle Size: No data available. Particle Size Distribution: No data available. Specific surface area: No data available. Surface charge/Zeta No data available.

potential:

Shape: No data available. **Crystallinity:** No data available. Surface treatment: No data available.

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 > 752 °F/> 400 °C

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** 

Carbon Monoxide. Carbon Dioxide. organic products of decomposition **Products:** 

None known.

# 11. Toxicological information

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**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:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

# 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.

Inhalation

**Product:** No data available.

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

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:

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**

In vitro

**Product:** Ames test (Literature): negative;



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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** 

**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



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# 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.

International Regulations

**UNRTDG** 

Not regulated as a dangerous good



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#### 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.

none present of 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.

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#### **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:** 11/12/2021

Version #: 2.1

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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