

# 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 24-Hour Health	

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 None. classified (HNOC):

### 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 Treatment:	attention and special treatment needed 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 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 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.

### **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 an Appearance	d chemical properties
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 flammabil	ity 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:	
pH: Viscosity	5.5 - 7.5 (40 g/l, 68 °F/20 °C) 1: 1 in suspension
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
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Vapor pressure: Relative density:	Not applicable No data available.
Density:	Approximate 2 g/cm3 (68 °F/20 °C)
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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 potential:	No data available.
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 temperature:	986 °F/530 °C (VDI 2263)
Dust explosion properties:	Not dust explosive
Evaporation Rate:	No data available.
Minimum ignition energy:	> 10 kJ
10 Stability and reactivity	

## 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.	
		<b>E</b> (4.0



### 11. Toxicological information

General information	on:	Silicosis or other proben reported.	oduct specific illnesses of the respiratory trac	ct have not
Information on to	xicological effe	ects		
Information on lil	kely routes of e	exposure		
Inhalation:		Information on effect	ts are given below.	
Skin Contact:		Information on effect	ts are given below.	
Eye contact:		Information on effect	ts are given below.	
Ingestion:		Information on effect	ts are given below.	
Acute toxicity (	list all possible	e routes of exposure	)	
Oral Product:		Limit Test, No death	0 mg/kg (OECD 401) Not toxic after single e ns observed., Based on available data, the c , comparable product	
Dermal Product: Component Silanamine trimethyl-N (trimethyls hydrolysis silica	e, 1,1,1- I-	No data available. No data available.		
Inhalation Product: Component Silanamine trimethyl-N (trimethyls hydrolysis silica	e, 1,1,1- I-		e exposure; No data available., Dusts, mists e exposure; No data available., Vapour	and fumes
Repeated dose toxi Product:	icity	No data available.		
Skin Corrosion/ Product:	/Irritation	Not irritating OECD	404 (Rabbit): Not irritating;	
Serious Eye Da Product:	mage/Eye Irrita	ation Not irritating Rabbit	Not irritating	
Respiratory or S Product:	Skin Sensitizat	Maximization Test,	OECD 406 (Guinea Pig): Not sensitising Bas classification criteria are not met. comparable	
Carcinogenicity Product:	/		genic substances as defined by NTP, IARC that cancer may be caused.	and/or
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### Germ Cell Mutagenicity

In vitro Product:	Ames test (Literature): negative;
In vivo Product:	No data available.
Reproductive toxicity	NO GAIA AVAIIADIE.
Product:	no evidence of reproductiontoxic properties
Specific Target Organ Toxicity Product:	<ul> <li>/ - Single Exposure</li> <li>no evidence for hazardous properties</li> </ul>
Specific Target Organ Toxicity Product:	/ - Repeated Exposure no evidence for hazardous properties
Aspiration Hazard Product:	Not classified
nformation 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.;
2. Ecological information	

### **Ecotoxicity:**

Acute hazards to the aquatic environment:

Fish Product:			erio (zebrafish), 96 h): > 1,000 mg/l The reported ominal concentration. tested substance: comparal	
Aquatic Inverteb Product:	rates		a, 48 h): > 100 mg/l Limit Test The reported toxic ominal concentration. tested substance: comparal	
Toxicity to Aqua Product:	tic Plants	No data available.		
Toxicity to micro Product:	oorganisms		ge): > 1,000 mg/l (OECD 209) The reported toxic minal concentration. tested substance: comparal	
Chronic hazards	to the aquat	ic environment:		
Fish Product:		No data available.		
Aquatic Inverteb Product:	rates	No data available.		
Toxicity to Aqua	tic Plants			
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C EVONIK Leading Beyond Chemistry Product name: AEROSIL® R 812 S	
Product:	No dat

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 Product:	<b>/ water (log Kow)</b> Log Kow: Not applicable
Mobility in soil:	
Product	No remarkable mobility in soil is to be expected.
Results of PBT and vPvB assess	nent:
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

### 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.



### 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

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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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