

Version: 2.6 Issue Date: 07.02.2019

Last revised date: 20.03.2021 Supersedes Date: 08.03.2021

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:

AEROSIL® R 812 S

Chemical name:

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

Additional identification

Chemical name: Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products

with silica

Chemical formula: -

INDEX No.

CAS-No. 68909-20-6

EC No. -

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Paints and varnishes.

Toner

Flow-promoting agent.

Cosmetics Silicone rubber Reinforcing agent.

Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Company Name : Evonik Operations GmbH

Rellinghauser Str. 1-11

45128 Essen Germany

Telephone : +49 6181 59 4787 E-mail : sds-hu@evonik.com

1.4 Emergency telephone number:

24-Hour Health : +49 7623 919191

Emergency



SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified



2.2 Label Elements

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Not applicable

Results of PBT and vPvB assessment 2.3 Other hazards

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

Endocrine disrupting properties-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher. **Endocrine disrupting properties-Ecotoxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or

Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Chemical name:

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

3.1 Substances

General information: No hazardous ingredients.

Chemical name INDEX No.:

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

CAS-No.:

68909-20-6

EC No.:

REACH Registration No.:

SECTION 4: First aid measures

4.1 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: Possible discomfort is due to foreign substance effect. Rinse thoroughly

with plenty of water keeping eyelid open. In case of persistent discomfort:

Consult an ophthalmologist.

Clean mouth with water and drink afterwards plenty of water. After Ingestion:

absorbing large amounts of substance / In case of discomfort: Supply with

medical care.

4.2 Most important symptoms

and effects, both acute and

delayed:

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: None known.

Treatment: No hazards which require special first aid measures.

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SECTION 5: Firefighting measures

5.1 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

5.2 Special hazards arising from the substance or

mixture:

May be released in case of fire: carbon monoxide, carbon dioxide, organic

products of decomposition.

5.3 Advice for firefighters Special fire fighting

procedures:

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

6.1.1 For non-emergency

personnel:

Avoid dust formation.

6.1.2 For emergency

responders:

No data available.

6.2 Environmental Precautions:

Do not allow entrance in sewage water, soil stretches of water,

groundwater, drainage systems.

6.3 Methods and material for containment and cleaning

up:

Sweep up or vacuum up spillage and collect in suitable container for

disposal.

6.4 Reference to other

sections:

For personal protection see section 8. For disposal considerations see

section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

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 workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If necessary: Local ventilation.

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7.2 Conditions for safe storage,

including any incompatibilities:

Keep in a dry place. Take precautionary measures against static discharges.

7.3 Specific end use(s): Applications; see Section 1. No further information available

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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) - Inhalable dust.	TWA	6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) - Respirable dust.	TWA	2.4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

Biological Limit Values

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

8.2 Exposure controls

Appropriate Engineering Ens

Controls:

Ensure suitable suction/aeration at the work place and with

operationalmachinery.Local ventilation if necessary. see also section 7.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses with side shields If dust occurs: basket-shaped glasses

Hand Protection: Additional Information: Wear protective gloves made of the following

materials: material, rubber, leather.

Additional Information: The material thickness and rupture time data do not

apply to non-solute solids / dusts.

Skin and Body Protection: No special protective equipment required. Preventive skin protection

Respiratory Protection: No special protective equipment required. If dust occurs: Dust mask with P2

particle filter

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.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 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



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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: 530 °C (VDI 2263)

Decomposition > 300 °C

Temperature:

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

Viscosity

Dynamic viscosity: Not applicable solid
Kinematic viscosity: Not applicable solid
Flow Time: Not applicable

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:Not applicable

Density: Approximate 2 g/cm3 (20 °C)

Bulk density: Not applicable Vapor density (air=1): Not applicable

Particle characteristics

Particle Size:

Particle Size Distribution:

No data available

No data available

No data available

Surface charge/Zeta

No data available

potential:

Assessment: No data available
Shape: No data available

Crystallinity: Crystallinity: amorphous;

Surface treatment: Surface treatment /Coatings: Yes;

9.2 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:

Not applicable

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

Minimum ignition energy: > 10 kJ

SECTION 10: Stability and reactivity

10.1 Reactivity:No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous

reactions:

No hazardous reactions are known if properly handled and stored.

10.4 Conditions to avoid: Hydrophobic properties disappear at temperatures > 300°C

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10.5 Incompatible Materials: None known.

10.6 Hazardous Decomposition

Products:

Carbon Monoxide. Carbon Dioxide. organic products of decomposition Stable under normal conditions. Product will not undergo hazardous

polymerization.

SECTION 11: Toxicological information

General information: Silicosis or other product specific illnesses of the respiratory tract were not

observed in association with the product.

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.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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: Not classified for acute toxicity based on available data.

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Not irritating OECD 404 (Rabbit): Not irritating; Based on available data, the

classification criteria are not met., comparable product

Serious Eye Damage/Eye Irritation

Product: Not irritating Rabbit: Not irritating Based on available data, the classification

criteria are not met. comparable product

Respiratory or Skin Sensitization

Product: Maximization Test, OECD 406 (Guinea Pig): not sensitizing Based on

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

Carcinogenicity

Product: No evidence that cancer may be caused.

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Germ Cell Mutagenicity

In vitro

Product: Ames test (literature): negative; Based on available data, the classification

criteria are not met. comparable product;

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

11.2 Information on other hazards

Endocrine disrupting properties

Product: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.;

Other hazards

Product: An Expert Judgment stated that no classification is necessary

based on present knowledge.; No toxicological tests are

available on the product.;

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 ((Brachydanio rerio), 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



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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: No data available.

12.2 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.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Not to be expected.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not applicable

12.4 Mobility in soil:

Product No remarkable mobility in soil is to be expected.

12.5 Results of PBT and vPvB assessment:

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

12.6 Endocrine disrupting properties:

Product: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

12.7 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.

SECTION 13: Disposal considerations



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13.1 Waste treatment methods

General information: No data available.

Disposal methods: No waste key number as per the European Waste Types List can be

> assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official

authority.

Contaminated Packaging: Offer rinsed packaging material to local recycling facilities. Other countries:

observe the national regulations.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

- EU. REACH Annex XIV, Substances Subject to Authorization: none
- EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none
- EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I,



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Part 1 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I,

Part 2 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I,

Part 3 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as

amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding .: none

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:Not applicable

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical safety

assessment:

No exposure or risk assessment is required for this product since it is not

classified for health or environmental risks.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kvoto protocol

Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; AGW - Occupational exposure limit; ASTM - American Society for Testing and Materials; AwSV - Ordinance on facilities for handling substances that are hazardous to water; BSB - Biochemical oxygen demand; c.c. - closed cup; CAS - Chemical Abstract Services; CESIO - European Committee of Organic Surfactants and their Intermediates; CSB - Chemical oxygen demand; DMEL - Derived minimum effect level; DNEL - Derived no effect level; EbC50 - median concentration in terms of reduction of growth; EC -



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Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; EN - European norm; ErC50 - median concentration in terms of reduction of growth rate; GGVSEB - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; GLP - Good Laboratory Practice: GMO - Genetic Modified Organism: IATA - International Air Transport Association: ICAO - International Civil Aviation Organization: IMDG - International Maritime Dangerous Goods: ISO - International Organization For Standardization: LD/LC lethal dosis/concentration; LOAEL - Lowest observed adverse effect level; LOEL - Lowest observed effect level; M-Factor - multiplying factor; NOAEL - No observed adverse effect level; NOEC - no observed effect concentration; NOEL - no observed effect level; o.c. - open cup; OECD - Organisation for Economic Cooperation and Development; OEL - Occupational Exposure Limit; PBT - Persistent, bioaccumulative, toxic; PNEC - Predicted no effect concentration; REACH - REACH registration; RID - Convention concerning International Carriage by Rail: **SVHC** - Substances of Very High Concern: **TA** - Technical Instructions; TRGS - Technical Rules for Hazardous Substances; vPvB - very persistent, very bioaccumulative; WGK - Water Hazard Class

Key literature references and

No data available.

sources for data:

Wording of the H-statements in section 2 and 3: none

Training information: No data available.

Revision Information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer:

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