1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name
AEROSIL® R 812 S

Company
Evonik Degussa GmbH
Inorganic Materials
Produktsicherheit IM-PT-PS
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D-63403 Hanau

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Use of the Substance / Preparation
Paints and lacquers
Toner
Free flow agents
Cosmetics
Silicone rubber
Reinforcing agents

REACH Registration No.: if available listed in Chapter. 3

2. HAZARDS IDENTIFICATION

Additional safety information for humans and the environment
On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

- Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica
  CAS-No. 68909-20-6  EC-No. 272-697-1

See chapter 16 for text of risk phrases

4. 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
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.

**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.

**Notes to physician**
No hazards which require special first aid measures.

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### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
All extinguishing substances suitable.

**Specific hazards during fire fighting**
May be released in case of fire: carbon monoxide and carbon dioxide.

**Further information**
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.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Wear personal protective equipment.

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

**Methods for cleaning up**
Sweep up or vacuum up spillage and collect in suitable container for disposal.

**Additional advice**
Avoid dust formation.

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### 7. HANDLING AND STORAGE

**Handling**

**Safe handling advice**
If necessary: Local ventilation.

**Advice on protection against fire and explosion**
Take precautionary measures against static discharges.

**Dust explosion class**
1 m³ vessel = not dust explosive
VDI Guideline 2263 sheet 1

**Storage**

**Requirements for storage areas and containers**
Keep in a dry place.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Personal protective equipment

Respiratory protection
No special protective equipment required.
If dust occurs: Dust mask with P2 particle filter

Hand protection
Wear protective gloves made of the following materials: material, rubber, leather.
The material thickness and rupture time data do not apply to non-solute solids / dusts.

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

Skin and body protection
No special protective equipment required.
preventive skin protection

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 fattened soaps and skin cream for skin care.
Wash contaminated clothing before re-use.

Protective measures
Handle in accordance with good industrial hygiene and safety practices.
If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.
If the limits at the workplace are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form powder
Colour white
Odour odourless

Safety data
pH 5,5 - 7,5 (40 g / l) (20 °C)
Medium: water / methanol 1:1 in suspension

Melting point/range not applicable
Boiling point/range not applicable
Flash point not applicable
Flammability not applicable
Ignition temperature > 400 °C
Method: VDI 2263

Autoinflammability not applicable
Lower explosion limit not determined
Upper explosion limit not determined
Minimum ignition energy not determined
Vapour pressure not applicable
Density: ca. 2 g/cm³ (20 °C)

Tapped density: ca. 60 g / l
   Method: DIN / ISO 787/11

Water solubility: insoluble

Partition coefficient (n-octanol/water): not applicable

Viscosity, dynamic: not applicable

10. STABILITY AND REACTIVITY

Conditions to avoid: With temperatures > 300 °C, hydrophobicity is lost.

Hazardous decomposition products: Carbon monoxide, carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD₅₀ Rat: > 2000 mg/kg
   Method: OECD Test Guideline 401 (limit test)

Skin irritation: Rabbit / OECD Test Guideline 404
   not irritating

Eye irritation: Rabbit / OECD Test Guideline 405
   not irritating

Sensitization: Maximization test guinea pig: not sensitizing
   Method: OECD Test Guideline 406

Genotoxicity in vitro: Ames test S. typhimurium / E. coli
   negative
   Method: literature

Human experience: Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:
   No ecotoxicological data is available for this product.

13. DISPOSAL CONSIDERATIONS

Product
   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.
Uncleaned packaging
Offer rinsed packaging material to local recycling facilities.
Other countries: observe the national regulations.

Waste Key Number
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. 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.

14. TRANSPORT INFORMATION

Transport/further information
Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives
Other data
On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.

National legislation

16. OTHER INFORMATION

Risk phrase (R phrase) texts

Further information
Changes since the last version are highlighted in the margin. This version replaces all previous versions.
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.