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

Product information

Trade name : AEROSIL® R 106
Use of the Substance / Preparation : Antiblocking agents, Free flow agents, Silicone rubber, Toner
Company : Evonik Corporation USA
          299 Jefferson Road
          Parsippany, NJ 07054-0677
          USA
Telephone : 973-929-8000
Telefax : 973-929-8040
US: CHEMTREC EMERGENCY NUMBER : 800-424-9300
CANADA: CANUTEC EMERGENCY NUMBER : 613-996-6666
Product Regulatory Services : 973-929-8060

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form - powder  Color - white  Odor - odorless

Dust may be irritating to respiratory tract.

POTENTIAL HEALTH EFFECTS

Eye contact
No hazard expected in normal use.

Skin Contact
No hazard expected in normal use.

Inhalation
Possibly irritating.

Ingestion
No hazard expected in normal use.
Chronic Health Hazard
Suspect reproductive hazard - contains material which may injure unborn child.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components
Cyclotetrasiloxane, octamethyl-, reaction products with silica
   CAS-No. 68583-49-3 Percent (Wt./ Wt.)
octamethylocyclotetrasiloxane
   CAS-No. 556-67-2 Percent (Wt./ Wt.) < 0.15 %

Other information
This material is classified as hazardous under OSHA regulations.

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 soap and plenty of water.

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.

Ingestion
If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point not applicable
Lower explosion limit not determined
Upper explosion limit not determined
Autoignition temperature > 600 °C
   Method: VDI Guideline 2263 sheet 1

Suitable extinguishing media
Use water spray or fog, foam, dry chemical or CO2.
Adapt fire-extinguishing measures to surroundings

Specific hazards during fire fighting
May be released in case of fire: carbon monoxide, carbon dioxide.
Further information
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
Wear personal protective equipment.

Environmental precautions
Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

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

Additional advice
Avoid dust formation.

7. HANDLING AND STORAGE

Handling

Safe handling advice
Wash thoroughly after handling. Provide adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

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 containers tightly closed in a dry, cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component occupational exposure guidelines

- Dust
  
  CAS-No.
  Control parameters 3 mg/m³
  Time Weighted Average (TWA): (ACGIH) Respirable particles.
Personal protective equipment

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.

Hand protection
Wear protective gloves made of the following materials: material, rubber, leather.

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use. Use impermeable gloves.

Eye protection
Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin and body protection
A safety shower and eye wash fountain should be readily available.
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

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.

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 workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form  powder
Color  white
Odor  odorless
physical state  solid

Safety data
pH  > 3.7 (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
Autoignition temperature: > 600 °C
Method: VDI Guideline 2263 sheet 1
Autoinflammability: not known
Oxidizing properties: Not to be expected in view of the structure
Explosiveness: not to be expected, given the composition employed
Lower explosion limit: not determined
Upper explosion limit: not determined
Minimum ignition energy: not applicable
Vapor pressure: not applicable
Density: ca. 2 g/cm³ (20 °C)
Tapped density: ca. 50 g/l
Method: DIN / ISO 787/11
Water solubility: hardly soluble
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: None known.
Hazardous reactions: None known.
Further information: Stable under normal conditions.
Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Product Acute oral toxicity: LD50 Rat: > 1000 mg/kg
Method: OECD Test Guideline 401
(limit test)
(the maximum dose attainable under experimental conditions)

Product Acute dermal toxicity: LD50 Rat: > 2000 mg/kg
Method: OECD Test Guideline 402

Product  Skin irritation  Rabbit
not irritating
Method: OECD Test Guideline 404

Product  Eye irritation  Rabbit
not irritating
Method: OECD Test Guideline 405

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

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

12. ECOLOGICAL INFORMATION

General Ecological Information  No ecotoxicological studies are available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Advice on disposal  Waste must be disposed of in accordance with local, state, provincial and federal laws and regulations. Empty containers must be handled with care due to product residue.

14. TRANSPORT INFORMATION

Transport/further information  Not dangerous according to transport regulations.

15. REGULATORY INFORMATION

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed
Clean Air Act Section (112)
If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities
If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories
The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Chronic Health Hazard

SARA Title III Section 313 Reportable Substances
If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)
If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations
The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

California Proposition 65
A warning under the California Drinking Water Act is required only if listed below:

- None listed
International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

- Europe (EINECS/ELINCS)  Listed/registered
- USA (TSCA)  Listed/registered
- Canada (DSL)  Listed/registered
- Australia (AICS)  Listed/registered
- Japan (MITI)  Listed/registered
- Korea (TCCL)  Listed/registered
- Philippines (PICCS)  Listed/registered
- China  Listed/registered
- New Zealand  Listed/registered
- Japan (MITI)  Listed/registered

16. OTHER INFORMATION

HMIS Ratings

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NFPA Ratings

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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.