

**MATERIAL SAFETY DATA SHEET****AEROSIL® 200**

degussa.

Material no.		Version	3.6 / US
Specification	132138	Revision date	04/06/2006
Order Number		Print Date	06/25/2006
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : AEROSIL® 200  
Use of the Substance / Preparation : Sealants  
Coloured printing inks  
Paints and lacquers  
Adhesive  
Silicone rubber

Function : Anticaking agents  
Antiblocking agents  
Coating agent  
Dispersing agent  
Free flow agents  
Reinforcing agents  
Carrier

Company : Degussa Corporation  
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USA

Telephone : 973-541-8000

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**US: CHEMTREC EMERGENCY NUMBER** : 800-424-9300

**CANADA: CANUTEC EMERGENCY NUMBER** : 613-996-6666

Product Regulatory Services : 973-541-8060

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components**

Silicon dioxide, chemically prepared			
CAS-No.	112945-52-5	Percent (Wt./ Wt.)	100 %

**Other information**

This material is classified as hazardous under OSHA regulations.

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A new CAS #, 112945-52-5, has been assigned to Amorphous Precipitated Silica to distinguish it from crystalline silica. According to EPA this product meets TSCA requirements and is listed on the TSCA Inventory as Silica, CAS # 7631-86-9.

### 3. HAZARDS IDENTIFICATION

#### \*\*\* EMERGENCY OVERVIEW \*\*\*

*Form-powder*    *Color-white*    *Odor-odorless*

Dust may be irritating to respiratory tract.

#### POTENTIAL HEALTH EFFECTS

##### Eye contact

Possibly irritating.

##### Skin Contact

May cause drying of the skin.

##### Inhalation

May cause irritations of the respiratory tract.

##### Ingestion

No hazard expected in normal use.

### 4. FIRST AID MEASURES

#### Inhalation

In case product dust is released: Possible discomfort: cough, sneezing  
Take affected persons out into the fresh air.

#### Skin contact

Wash off immediately with soap and plenty of water.

#### Eye contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

#### Ingestion

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

#### Notes to physician

No hazards which require special first aid measures.

### 5. FIRE-FIGHTING MEASURES

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Flash point	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Autoignition temperature	not applicable

### Suitable extinguishing media

All extinguishing substances suitable.

### Specific hazards during fire fighting

None known.

### Further information

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use 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.

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## 7. HANDLING AND STORAGE

### Handling

#### Safe handling advice

Use with adequate ventilation.

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.

### Storage

#### Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool place.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component occupational exposure guidelines

- Silicon dioxide, chemically prepared

CAS-No.	112945-52-5
Control parameters	20millions of particles

Time Weighted Average (TWA):(Z3)

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per cubic foot of air  
0.8 mg/m<sup>3</sup>

Time Weighted Average (TWA):(Z3)  
The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

10 mg/m<sup>3</sup>  
Inhalable particles.

Time Weighted Average (TWA):(ACGIH)

3 mg/m<sup>3</sup>  
Respirable particles.

Time Weighted Average (TWA):(ACGIH)

5 mg/m<sup>3</sup>  
Respirable fraction.

PEL:(OSHA Z1)

15 mg/m<sup>3</sup>  
Total dust.

PEL:(OSHA Z1)

5 mg/m<sup>3</sup>  
Respirable fraction.

Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA OEL)

10 mg/m<sup>3</sup>  
Total dust.

Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA OEL)

**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**

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 re-use.

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**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

**Safety data**

pH	3.7 - 4.7 (40 g / l) (20 °C) (suspension)
Melting point/range	ca. 1700 °C
Boiling point/range	not applicable
Flash point	not applicable
Flammability	not applicable
Autoignition temperature:	not applicable
Autoinflammability	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Minimum ignition energy	> 10 Joule
Vapor pressure	not applicable
Density	ca. 2.2 g/cm <sup>3</sup> (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**

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Conditions to avoid	Operations that create dust.
Hazardous decomposition products	None known.
Thermal decomposition	> 2000 °C
Further information	Stable under normal conditions. Product will not undergo hazardous polymerization.

**11. TOXICOLOGICAL INFORMATION**

Product Acute oral toxicity	LD50 Rat: > 10000 mg/kg Method: literature
Product Acute inhalation toxicity	LC0 Rat: 0.139 mg/l / 4 h Method: literature (maximum concentration attainable in experiments) No deaths occurred.
Product Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg Method: literature
Product Skin irritation	Rabbit Not irritating. Method: literature
Product Eye irritation	Rabbit Not irritating. Method: literature
Product Repeated dose toxicity	Oral No negative effects.  Inhalation No irreversible changes and no indication of silicosis.
Product Mutagenicity assessment	No evidence of mutagenic effects reported in literature.
Product Carcinogenicity	No negative effects.
Product Toxicity to reproduction	No negative effects.
Product Human experience	Silicosis or other product specific illnesses of the respiratory tract have not been reported.

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**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish	LC50 (Brachydanio rerio): > 10000 mg/l / 96 h Method: OECD 203
Toxicity to daphnia	EC50 Daphnia magna: > 10000 mg/l / 24 h Method: OECD 202

**13. DISPOSAL CONSIDERATIONS****WASTE DISPOSAL**

Advice on disposal

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

**14. TRANSPORT INFORMATION****Transport/further information**

Not classified as dangerous in the meaning of 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

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## SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- No SARA Hazards

## 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 Degussa Corporation Product Regulatory Department:

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

## 16. OTHER INFORMATION

### HMIS Ratings

Health : 1



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Flammability :	0
Physical Hazard :	0

**NFPA Ratings**

Health :	1
Flammability :	0
Reactivity :	0

**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.