

SAFETY DATA SHEET (EC 1907/2006)**AEROSIL® 200**

Version: **1.47 / REG_EU**
Revision date: **26.01.2016**
Issue date: **23.09.2002**
replaces version: **1.46**
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Material no.
Specification **132138**
VA-Nr

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name **AEROSIL® 200**
Chemical Name **Silicon dioxide, chemically prepared**
CAS-No. **112945-52-5, 7631-86-9**
REACH Registration No.: **if available listed in Chapter. 3**

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

Relevant applications identified
Sealants
Coloured printing inks
Paints and varnishes.
Adhesive
Silicone rubber
Cosmetic ingredient
Cosmetics
Agrochemicals
Function
Anticaking agent
Antiblocking agents
Coating agent
Dispersing agent
Flow-promoting agent.
Reinforcing agent.
Carrier

1.3. Details of the supplier of the safety data sheet

Company **Evonik Resource Efficiency GmbH**
RE-ES-PS Hanau
Postfach 1345
D-63403 Hanau
Telephone **+49 (0)6181 59-4787**
Telefax **+49 (0)6181 59-4205**
Email address **sds-hu@evonik.com**

1.4. Emergency telephone number

Emergency information **+49 (0)7623-919191 (Interpreting service available)**

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not a hazardous substance according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Labelling as per (EU) 1272/2008

Statutory basis **Labelling not required according to EU-CLP Ordinance (1272/2008).**

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

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**3.1. Substances**

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• Silicon dioxide, chemically prepared			
CAS-No.	112945-52-5 7631-86-9	EC-No.	231-545-4
Remarks	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.		

Texts of H phrases, see in Chapter 16

3.2. Mixtures

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SECTION 4: First aid measures**4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

None known

Hazards

None known

4.3. Indication of any immediate medical attention and special treatment needed

No hazards which require special first aid measures.

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

None known

5.3. Advice for firefighters

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.

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

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

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

If necessary: Local ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Storage

Keep in a dry place.

7.3. Specific end use(s)

Applications; see Section 1.

No further information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

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 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 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.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

Form powder
Colour white
physical state solid

Odour odourless

Odour threshold: not applicable

pH 3,7 - 4,5 (40 g / l) (20 °C)
(suspension)

Melting point/range ca. 1700 °C

Boiling point/range not determined

Flash point not applicable
solid

Evaporation rate not applicable

Flammability (solid, gas) not applicable

Lower explosion limit not applicable

Upper explosion limit not applicable

Vapour pressure not applicable

Vapour density not applicable

Density ca. 2,2 g/cm³ (20 °C)

Water solubility > 1 mg/l

Partition coefficient n-
octanol/water not applicable

Autoinflammability not applicable

Thermal decomposition > 2000 °C

Viscosity, dynamic not applicable
solid

Explosiveness Not to be expected in view of the structure

Oxidizing properties Not to be expected in view of the structure

9.2. Other information

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Ignition temperature not applicable
Minimum ignition energy not applicable
Tapped density ca. 50 g / l
Method: DIN / ISO 787/11

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

Possibility of hazardous reactions No hazardous reactions are known if properly handled and stored.

10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known
Stable under normal conditions.
Product will not undergo hazardous polymerization.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity	LD50 Rat: > 3300 mg/kg No deaths occurred. LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401 comparable product
Acute inhalation toxicity	LC0 Rat: 0,139 mg/l / 4 h Method: analogous OECD method (maximum concentration attainable in experiments) No deaths occurred.
Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg comparable product
Skin irritation	Rabbit not irritating Method: analogous OECD method
Eye irritation	Rabbit not irritating Method: analogous OECD method
Sensitization	not known
Assessment of STOT single exposure	no evidence for hazardous properties
Assessment of STOT repeat	no evidence for hazardous properties

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exposure	
Risk of aspiration toxicity	No aspiration toxicity classification
Mutagenicity assessment	no evidence of mutagenic effects
Carcinogenicity	No evidence that cancer may be caused.
Toxicity to reproduction	no evidence of reproductiontoxic properties
Human experience	Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.
Further information	The classification criteria are not met based on the available data.

SECTION 12: Ecological information**12.1. Toxicity**

No ecotoxicological data is available for this product.

Toxicity to fish	LC50 (Brachydanio rerio): > 10000 mg/l / 96 h Method: OECD 203 The reported toxic effects relate to the nominal concentration.
Toxicity in aquatic invertebrates	EC50 Daphnia magna: > 1000 mg/l / 24 h Method: OECD 202 The reported toxic effects relate to the nominal concentration.

12.2. Persistence and degradability

Biodegradability	The methods for determining biodegradability are not applicable to inorganic substances.
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12.3. Bioaccumulative potential

Bioaccumulation	Not to be expected.
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12.4. Mobility in soil

Mobility	No remarkable mobility in soil is to be expected.
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12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Further Information	An Expert Judgment stated that no classification is necessary based on present knowledge.
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SECTION 13: Disposal considerations**13.1. Waste treatment methods****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.

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**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.

SECTION 14: Transport information

Not dangerous according to transport regulations.

14.1.	UN number:	--
14.2.	UN proper shipping name:	--
14.3.	Transport hazard class(es):	--
14.4.	Packing group:	--
14.5.	Environmental hazards:	--
14.6.	Special precautions for user:	No

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
National legislation**15.2. Chemical safety assessment**

Chemical safety assessment No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

SECTION 16: Other information**Further information**

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

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Legend

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
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services

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CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
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
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
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
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization