

# MATERIAL SAFETY DATA SHEET

**STATEMENT OF HAZARDOUS NATURE:**

Hazardous according to criteria of Worksafe Australia

**IDENTIFICATION****Product Name:****AEROSIL ® 200****Other Names:**

Silicone dioxide, chemically prepared.

**U N Number:**

No risk material accordingly to transport regulations.

**Dangerous Goods & Sub Risk Class****Hazchem Code:****Packaging Group:****Poison Schedule (S.U.S.D.P.):****Use:** Silica as thickening, thixotropizing and reinforcing as well as for improvement of free flow characteristics of substances in powder form and the stabilisation of suspensions.**Physical Description & Properties:****Appearance - Form:** Powder**Colour:** White**Odour:** Odourless**Change in Physical State:**

|   |                        |                           |
|---|------------------------|---------------------------|
| <b>Melting point/range</b>                              | approx. 1700           | °C                        |
| <b>Solubility in water</b>                              | approx. 0.15           | g/l (25°)                 |
| <b>Boiling Point Range</b>                              | not applicable         |                           |
| <b>Ignition temperature (DIN51794)</b>                  | not applicable         |                           |
| <b>Autoignition temperature</b>                         | not applicable         |                           |
| <b>Lower Explosion Limit</b>                            | not applicable         |                           |
| <b>Upper Explosion Limit</b>                            | not applicable         |                           |
| <b>Density</b>  | approx. 2.2            | g/cm <sup>3</sup> at 20°C |
| <b>Vapour pressure</b>                                  | not applicable         |                           |
| <b>Viscosity (dynamic)</b>                              | not applicable         |                           |
| <b>Partition coefficient (n-Octanol/water)</b>          | not applicable         |                           |
| <b>Relative Vapour pressure (related to air) &gt; 1</b> |                        | @ 20° C                   |
| <b>pH-value (40 g/l water) (20°C)</b>                   | 3.7 – 4.7 (suspension) |                           |
| <b>Flashpoint (DIN 51755)</b>                           | not applicable         |                           |
| <b>Flammability</b>                                     | not applicable         |                           |
| <b>Tapped density</b>                                   | approx. 50             | g/l                       |

Method DIN / ISO 787 / 11

**Stability & Reactivity:**

|  |             |
|--|-------------|
| <b>Thermal decomposition:</b>            | > 2000° C   |
| <b>Hazardous Decomposition products:</b> | None known. |

**Hazards Identification:**

Not classified as hazardous according to criteria of Worksafe Australia.

**Information on Ingredients / Hazardous components**

Silicone dioxide, chemically prepared

CAS No.: 112945-52-5, 7631-86-9      EC Number: 231-545-4

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NSW Office: 16/ 122-124 Hassall Street, Wetherill Park, NSW 2164      Ph: 1800 062 301      Fax: (02) 9609 1400

**HEALTH HAZARD INFORMATION****Health Effects:**

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

**First Aid:****Swallowed –**

Rinse mouth.

**Eyes -**

Possible discomfort due to foreign substance effect. Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort: consult ophthalmologist.

**Skin -**

No hazards which require special first aid measures.

**Inhaled –**

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

**Advice to Doctor:**

No hazards which require special first aid measures.

**Emergency number**

Product number to be identified    Bus ( 03 ) 9720 8777    AH ( 03 ) 9727 2299

**PRECAUTIONS FOR USE****Exposure Standards:****Components with workplace control parameters:****Engineering Controls:**

If necessary local ventilation. Take precautionary measures against static discharges. Refer to "Handling and Storage".

**Personal Protective Equipment:**

**Respiratory protection:** No special protective equipment required. If dust occurs: dust mask with P2 particulate filter. If the limits at the workplace are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

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

**Eye Protection:** Safety glasses with side shields. If dust occurs: banded safety glasses.

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

**Industrial Hygiene:** No eating, drinking, smoking or snuffing tobacco at work. Wash contaminated clothing before re-use.

**Protective measures:** Handle in accordance with good industrial hygiene and safety practice. If there is a possibility of skin/eye contact the indicated hand/eye/body protection should be used.

**Flammability:**

If necessary, local ventilation. Take precautionary measures against static discharges.

**SAFE HANDLING INFORMATION****Transport :****A.D.G. Classification -**

**Dangerous Goods Class:**                      No risk material accordingly to transport regulations.

**Packaging Group:****HAZCHEM Code:****Compatibility and Segregation:**

Must not be carried with dangerous goods with which it may interact so as to cause risk or danger to persons, property or the environment.

**Handling and Storage:****Handling:**

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

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

**Storage:**

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

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**Spills and Disposal:****SPILLS -**

**Personal precautions:** Use personal protective clothing.

**Methods for cleaning up:** Take up mechanically and collect in suitable containers for disposal.

**DISPOSAL -**

**Product:** Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal experts and the responsible authorities.

**Contaminated packaging:** Take decontaminated packaging to local recycling centre. Other countries: observe relevant regulations.

**Waste Key Number:** No waste code number in accordance with European waste catalogue can be specified for this product since it can only be categorized on the basis of its use by the consumer. The waste code number is to be applied by arrangement with the disposal contractor, manufacturer or authority.

**Fire/Explosion Hazard:**

If necessary, local ventilation. Take precautionary measures against static discharges.

**Extinguishing substances:**

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

**Specific hazards during fire fighting:** None known.

**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. Retention of fire extinguishing water in Germany: see Fire Extinguishing Water Retention Directive "LoeRueRL". Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Other Information:****Ecological effects:**

**Elimination information (persistence and degradability):**

**Behaviour in environmental compartments:**

Biodegradability: difficult biodegradability, BOD, Source: literature

approx. 5%

**Ecotoxicity effects:**

**Toxicity to fish:** LC50 (Brachydanio rerio): >10,000 mg/l, 96 h. Method: OECD 203.

**Toxicity to daphnia:** EC50 (Daphnia magna): >10,000 mg/l, 24 h. Method: OECD 202.

**Toxicity:**

**Acute oral toxicity:**

LD50 rat, Method: literature

>10,000 mg/kg

**Acute inhalation toxicity:**

LC0 rat. Method: literature

0.139 mg/l 4 h

(maximum concentration attainable in experiments). No deaths occurred.

**Acute dermal toxicity:**

LD50 rabbit. Method: literature

>5,000 mg/kg

**Skin irritation:**

Rabbit. Method: literature

Not irritating

**Eye irritation:**

Rabbit. Method: literature

Not irritating

**Repeated dose toxicity:**

**Oral:** No negative results.

**Inhalative:** No irreversible changes and no indication of silicosis.

**Mutagenicity assessment:**

In vitro and in vivo experiments, no evidence of mutagenic effects, literature.

**Carcinogenicity:** No negative effects.

**Toxicity to reproduction:** No negative effects.

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

**Further Information:**

**Contact Point:** Mr. Craig Jones (03) 9720 8777

**n.a. = Not Applicable**

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