

EG-MATERIAL SAFETY DATA SHEET

according to 91/155 EEC

Date of issue: 4-Jul-07

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replaced copy from: 01.03.2007

Aluminium Oxide (Al₂O₃)

1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name: Aluminium Oxide
Company / Manufacturer: Wassermann Dental-Maschinen GmbH
Rudorffweg 15-17
D – 21031 Hamburg
+49 (0) 40 / 73 09 26 - 0
+49 (0) 40 / 7 30 37 24
info@wassermann-dental.com
www.wassermann-dental.com

2. Composition / Information on Ingredients:

- 2.1 Chemical characterization (substance): Polydimethylsiloxan mit funktionellen Gruppen + Hilfsstoffe für Additionsvernetzung
2.2 Definition according to EC directive: Aluminium oxide (Al₂O₃)
2.3 CAS No.: 1344 – 28 – 1
2.4 EINECS No.: 215 – 691 – 6

3. Hazards Identification:

Critical hazards to man and environment
EC/R: Not applicable

4. First aid measures:

- 4.1 Inhalation: No special action required
4.2 Skin contact: No special action required
4.3 Eye contact: Flush with plenty of water.
Seek medical advice if irritation persists
4.4 Ingestion: No special action required

5. Fire Fighting measures:

- 5.1 General information: Not inflammable
5.2 Suitable extinguishing media: Use extinguishing measures appropriate to the source of the fire
5.3 Extinguishing media which must not be used for safety reasons: None know
5.4 Special exposure hazards arising from the substance itself, combustion products, resulting gases: None known
5.5 Special protective equipment: Not applicable

6. Accidental release measures:

- 6.1 Personal precautions: Avoid dust formation. Wear personal protective equipment (see also item 8.3)
6.2 Environmental precautions: No special measures required
6.3 Methods for cleaning up: Pick up mechanically and dispose of in accordance to regulations

7. Handling and Storage:

- 7.1 Handling:
Precautions for safe handling: Avoid dust formation
Precautions against fire and explosion: No danger of fire and dust explosion
7.2 Storage:
Conditions of storage rooms and vessels: No special precautionary measures
Advice of storage of incompatible materials: None
Further information for storage: None

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8. Exposure controls / Personal protection:

8.1	Further information for system design and engineering measures:	Not applicable
8.2	Components with specific control parameters as limit values:	Observe the local bylaws in terms of fine dust (e.g.: TWA value 10 mg/m ³ ; MAK value 6 mg /m ³ , see also item 16)
8.3	Personal protection equipment: General protection and hygiene measures: Respiratory protection: Hand protection: Eye protection:	Observe standard industrial hygiene practice Avoid inhaling the dust Fine-dust mask with category P1 filter must be used if fine dust limits are exceeded. Protective gloves are recommended Safety glasses are recommended

9. Physical and chemical properties:

9.1	Appearance: Form: Colour: Odour:	Grains, powder Brown, Bluish, Grey, Black, White, Pink Odourless
9.2	Safety parameters: Change in physical state: Flash point: Flammability: Ignition temperature: Autoflammability: Oxidizing properties: Explosive properties: Explosive limits: Vapour pressure: Specific gravity: Bulk density: Solubility in water: pH value: Partition coefficient n-octanol/water:	melting point approx. 2000°C Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable (3,7 – 4,5) g/cm ³ (500 – 2500) kg/m ³ Practically insoluble Not applicable Not applicable

10. Stability and Reactivity:

10.1	General information:	The material is stable, no hazardous reactions known
10.2	Conditions to avoid:	Not applicable
10.3	Materials to avoid:	Not applicable
10.4	Hazardous decomposition products:	Non known

11. Toxicological Information:

11.1	General information:	No hazardous effects known, if used properly. No free silica included (see also item 16)
11.2	Acute toxicity:	Not known

12. Ecological Information:

12.1	Information on elimination: (persistence and degradability):	Chemically inert and insoluble in water. Separation by mechanical processes (sedimentation, filtration etc.)
12.2	Behaviour in environmental compartments:	No environmental problems known
12.3	Ecotoxicity:	No harmful effects on water organisms anticipated
12.4	Further ecological Information:	No environmental problems expected, if handled and treated in accordance with standard industrial practice

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13. Disposal Considerations:

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|------|-------------------------|----------------------------------------------------------------------------------------------------------------------|
| 13.1 | Material: | Can be stored with domestic waste.
Observe local bye-laws |
| 13.2 | Contaminated packaging: | Packaging has to be emptied entirely.
Recycling of used packaging is recommended. Local bye-laws must be observed |

14. Transport Information:

- | | | |
|------|-----------------------------------|------------------------|
| 14.1 | Land transport: | |
| | GGVS / ADR – classification: | Non hazardous material |
| | GGVE / RID: | Non hazardous material |
| 14.2 | Inland waterways: | |
| | GGVBisch / ADNR – classification: | Non hazardous material |
| 14.3 | Maritime transport: | |
| | GGVSee / IMDG – classification: | Non hazardous material |
| 14.4 | Air transport: | |
| | ICAO-TI / IATA – classification: | Non hazardous material |

15. Regulatory Information:

- | | | |
|------|-----------------------------------------------|------------------------------------------------------------------------|
| 15.1 | Classification according to EC guidelines: | |
| | Danger symbol and danger-text of the product: | None |
| | EC / R: | None |
| | EC / S: | None |
| 15.2 | National regulations: | |
| | e.g.: | (Germany) Classification according |
| | VbF: | Not subjected to VbF |
| | Water Pollution Category: | Not water polluting (VwVwS (Germany)
Dated 17.05.1999, enclosure 3) |

16. Further Information:

Studies by the Institute for Hygiene and Industrial Medicine of the University of Essen showed that fused aluminium oxide (corundum) is inert and possesses no toxic or carcinogenic properties. This information covers the safety requirements of the product(s) exclusively and is based on current knowledge and experience. It does not represent a guarantee for properties of the described product(s) in terms of the legal warranty regulations. The product specification is contained in a separate product data sheet.