

Material Safety Data Sheet according to 1907/2006 EEC (EEC 93/112; EEC 2001/58) ALUMINIUM OXIDE (Al₂O₃)

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

- 1.1 Identification of the substance or preparation: Commercial product name:
- 1.2
 Company/manufacturer:
 Pr

 Manufacturer/distributer:
 Pr

 PB No./street:
 Ze

 State/postal code/city:
 81

 Country:
 Ge

 Telephone:
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 Telefax:
 00

 Email:
 int

 Emergency information:
 00

 Department responsible for information:
 00

Synthetic Abrasive Aluminium Oxide

President Dental GmbH President Dental GmbH AG Zehentstadelweg 7 81247 Munchen Germany 0049 89 127 660 240 0049 89 127 660 269 info@presidentdental.de 0049 89 127 660 268

2 HAZARDS IDENTIFICATION

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

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization (substance):	
Definition according to EC directive:	Aluminium oxide (Al ₂ O ₃)
CAS No.:	1344 - 28 - 1
EINECS No.:	215 - 691 - 6

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

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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

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 8.2	Further information for system design and engineering measures: Components with specific control	Not applicable
•	parameters as limit values:	Observe the local bylaws in terms of fine dust (e.g.: TWA value 10 mg/m3; MAK value 6 mg /m3, see also item 16)
8.3	Personal protection equipment:	
	General protection and hygiene measures:	Observe standard industrial hygiene practice
	Respiratory protection:	Avoid inhaling the dust
		Fine-dust mask with category P1 filter must be used if fine dust limits are exceeded.
	Hand protection: Eye protection:	Protective gloves are recommended Safety glasses are recommended

9 PHYSICAL AND CHEMICAL PROPERITES

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

13 DISPOSAL CONSIDERATIONS

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13.1	Material:	Can be stored with domestic waste.
13.2	Contaminated packaging:	Observe local bye-laws Packaging has to be emptied entirely.
13.2	Containinateu packaging	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 poluting (VwVwS (Germany)
		dated 27.07.2005, enclosure 1)

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.

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