



Material Data Sheet

We provide on a voluntary basis a Data sheet in the style of 1907/2006 EEC.

ALUMINIUM OXIDE (Al₂O₃)



TREIBACHER
SCHLEIFMITTEL

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

1.1 Identification of the substance or preparation:

Commercial product name: **Alodur[®] OSO**

**1.2 Use of substance / preparation
Identified uses**

**Abrasive applications,
Refractories and ceramic applications,
production of wear-resistant materials,
Surface treatment, fillers**

**1.3 Company/manufacturer: Treibacher Schleifmittel d.o.o.
Manufacturer/distributor: Treibacher Schleifmittel d.o.o.
Country: Austria**

2 HAZARDS IDENTIFICATION

Critical hazards to man and environment

**Classification EC 1272/2008(CLP) Not classified as hazardous goods
EC 67/548/EEC or 1999/45/EC: No Hazards characteristics,
No R- or H-Phrases**

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization (substance):

**Definition according to EC directive: Aluminium oxide (Al₂O₃)
CAS No.: 1344 - 28 - 1
EINECS No.: 215 - 691 - 6
REACH Reg. No.: 01-2119529248-35-0089**

4 FIRST AID MEASURES

4.1 Inhalation: Move to fresh air, Consult a physician if necessary
4.2 Skin contact : Mechanical (dry) removal. Subsequent rinsing with water.
**4.3 Eye contact: Flush with plenty of water.
Seek medical advice if irritation persists**
**4.4 Ingestion: Rinse out mouth and give water to drink.
Seek medical advice.**

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5 FIRE FIGHTING MEASURES

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

6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions: **Avoid dust formation. In case of exposure to high levels of airborne dust, wear personal protective equipment (see also item 8)**
- 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**

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Exposure limit values: **Not applicable**
- 8.1.1 Components with specific control parameters as limit values: **Observe the local bylaws in terms of fine dust (e.g.: OSHA-PEL value 15 mg/m³ total dust; 5 mg/m³ for respirable dust ; TRGS 900 10 mg/m³ respirable, 3 mg/m³ alveolar)**
- 8.2 Exposure controls

- 8.2.1 Occupational exposure controls:**
- Respiratory protection:** **Avoid inhaling the dust**
Fine-dust mask with category P2 filter
must be used if fine dust limits are
exceeded.
- Hand protection:** **Protective gloves are recommended**
- Eye protection:** **Safety glasses are recommended**
- General protection and hygiene measures:** . **Observe standard industrial hygiene**
practice
- 8.2.2 Environmental exposure controls** **No special exposure controls required**

9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance:**
- Form:** **Grains, powder**
- Colour:** **Brown, Bluish, Grey, Black, White, Pink**
- Odour:** **Odourless**
- 9.2 Safety relevant basic parameters:**
- Change in physical state:** **melting point approx. 2000°C**
- Flash point:** **Not applicable**
- Flammability:** **Not flammable**
- Ignition temperature:** **Not applicable**
- Autoflammability:** **Not auto flammable**
- Oxidizing properties:** **Not applicable**
- Explosive properties:** **Not applicable**
- Explosive limits:** **Not applicable**
- Vapour pressure:** **Not applicable**
- Specific gravity:** **(3,7 - 4,5) g/cm³**
- Bulk density:** **(500- 2500) kg/m³**
- Solubility in water:** **Practically insoluble,**
- pH value:** **Not applicable**
- Partition coefficient n-octanol/water:** **Not applicable**

10 STABILITY AND REACTIVITY

- 10.1 Conditions to avoid:** **None**
- 10.2 Materials to avoid:** **None**
- 10.3 Hazardous decomposition products:** **The material is stable, no hazardous**
reactions known



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11 TOXICOLOGICAL INFORMATION

11.1	Toxicokinetics:	No bio accumulating potential
11.2	Acute effects/toxicity tests)	
	oral :	Not applicable. Not a relevant exposure route
	Dermal :	Not applicable
	Inhalation :	Not applicable
	Skin corrosion:	Not corrosive
	Skin irritation :	Not irritating
	Eye irritation:	Not irritating
	Sensitisation:	Not sensitising
	Repeated dose Toxicity:	Not applicable. Not a relevant exposure route
	Oral:	route
	Inhalation:	not applicable
	CMR effects:	There is no evidence of any CMR effects

12 ECOLOGICAL INFORMATION

12.1	Ecotoxicity:	No harmful effects on water organisms anticipated The substance is highly insoluble in water.
12.2	Mobility - distribution to terrestrial compartments:	Not applicable
12.3	Persistence and degradability:	Not applicable for inorganic substances
12.4	Results of PBT assessment:	Aluminiumoxide is not a PBT substance.
12.5	Other adverse effects	None

13 DISPOSAL CONSIDERATIONS

13.1	Appropriate disposal:	Reuse or recycle when possible. 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:	Not classified as hazardous material
	GGVE / RID:	Not classified as hazardous material
14.2	Inland waterways:	
	GGVBisich / ADN - classification:	Not classified as hazardous material
14.3	Maritime transport:	
	GGVSee / IMDG - classification:	Not classified as hazardous material
14.4	Air transport:	
	ICAO-TI / IATA - classification:	Not classified as hazardous material

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15 REGULATORY INFORMATION

- 15.1 Classification according to EC guidelines:**
Labelling EC No 1272/2008:..... The product is not classified. No hazard symbol is necessary.
Labelling (67/548/EEC or 1999/45/EC) None
Hazard symbols None
- 15.2 National regulations:**
e.g.: (Germany) Classification according VbF: Not subjected to VbF
Water Pollution Category:..... Not water polluting (VwVwS (Germany) dated 27.07.2005, enclosure 1)

16 OTHER INFORMATION

- 16.1 Relevant R-and H-Phrases: None**
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.
- 16.2 Issuer of MSDS TS EHS**
- 16.3 Annex Exposure Scenarios**
As a result of the hazard assessment and PBT/vPvB assessment it is found that Substance Aluminium Oxide (CAS# 1344-28-1) does not meet the criteria for classification as hazardous (according to the directives 67/548/EEC and 1272/2008/EC) nor it is considered to be a PBT/vPvB. An exposure assessment and the subsequent step of risk characterisation are not required.