

# EC – MATERIAL SAFETY DATA SHEET

Q 1016  
REV 00 / 2003  
12.11.2003

Material Safety Data Sheet according to 91/155/EEC

Trade Name: **Regular brown corundum**

Issue date: **26/02/2009**

Revised to: **3/29/2004**

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## 1. Chemical product and company identification

Product name: **Regular brown Alumina**

Manufacturer: **Microbeads AG**  
**Neumarkt 2 / Postfach 504**  
**CH-5201 Brugg / Schweiz**  
**Phone: 0041 56 441 16 11**  
**Fax: 0041 56 441 55 15**

In case of emergency call: **Microbeads AG**  
**Phone: 0041 56 441 16 11**

## 2. Composition/Information on ingredients:

**Chemical classification:** Aluminium oxide

**Chemical composition:**

Al <sub>2</sub> O <sub>3</sub>	min. 96.10 %
Fe <sub>2</sub> O <sub>3</sub>	0.15 %
TiO <sub>2</sub>	2.70 %
SiO <sub>2</sub>	1.30 %
CaO	0,21 %
MgO	0,27 %

*Cas-No:* **1344-28-1**

*Index-No:* **000-000-00-0**

*EINECS-No:* **251-691-6**

## 3. Hazard identification:

**Special hazard indications for human beings and environment:** none

## 4. First Aid Measures

**Inhalation:** no particular measures required

**Skin contact:** no particular measures required

**Eye contact:** rinse with plenty of water

**Swallowing:** no particular measures required

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### **5. Fire-fighting measures**

**General:** Product itself is non-flammable  
**Extinguishing agent:** Choose extinguisher suitable for surrounding fire  
**For safety reasons unsuitable fire extinguishing agents:** none admits  
**Special endangerment by the material or the preparation, its combustion product or developing gases:** NNne admits special  
**Protection equipment:** None

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### **6. Accidental release measures**

**Personal safety:** Avoid raising dust. Wear suitable respiratory protective equipment and gloves if exposure is considered to be likely.  
**Environmental safety:** No particular measures required  
**Environmental protection Measures:** No special measures  
**Cleaning procedure:** Take up the material mechanically and dispose of correctly

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### **7. Handling and storage**

**Handling:**  
**References to safe handling:** Avoid breathing dust  
**References of fire and explosion risk:** No dust explosion risk when stored, handled, and transported correctly  
**Storage:**  
**Requirement at storage and containers:** None  
**References of storage together:** None  
**Further data for storage:** None

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### **8. Exposure controls/personal protection**

**Additional indications for the design of technical equipment:** None  
**Components with workplace-relevant limit values which require monitoring:** In line with national or federal regulations (e.g. to be observed for fine dust: TWA 10 mg / m<sup>3</sup>; MAK: 6 mg / m<sup>3</sup>)  
**Personal protection gear:**  
**Breathing protection:** Dust mask only when dust is raised  
**Hand protection:** Safety gloves  
**Eye protection:** Safety goggles

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### **9. Physical and chemical properties**

Shape:	<b>granular resp. powder</b>
Colour:	<b>brown</b>
Odour:	<b>odourless</b>
Change of state:	<b>melting point: approx. 2000°C</b>
Flashpoint:	<b>N/A</b>
Flammability:	<b>N/A</b>
Ignition temperature:	<b>N/A</b>
Autoignitability:	<b>N/A</b>
Explosion risk:	<b>N/A</b>
Explosion limits:	<b>N/A</b>
Vapour pressure:	<b>N/A</b>
Specific gravity:	<b>3.7 – 4.5 g/cm<sup>3</sup></b>
Bulk density:	<b>500 – 2500 kg/m<sup>3</sup></b>
Solubility in water:	<b>insoluble</b>
pH-value:	<b>N/A</b>

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### **10. Stability and Reactivity**

<b>General:</b>	During appropriate storage and handling no dangerous reactions are well-known.
<b>Avoiding conditions:</b>	None
<b>Avoiding materials:</b>	None
<b>Dangerous decomposition products:</b>	N/A

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### **11. Toxicological Information**

<b>General:</b>	In the case of appropriate use after conditions of our present knowledge is no damage to expect (see also section 16)
<b>Acute toxicity:</b>	N/A

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### **12. Ecological information**

<b>General:</b>	The product is insoluble in water
<b>Behaviour in environment compartments:</b>	No environmental problems admits
<b>Ecotoxicity effects:</b>	On harmful effect on water organisms is not to be counted
<b>Further ecological references:</b>	In the case of appropriate handling and use no environmental problems are to be expected.

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### **13. Disposal considerations**

<b>Product:</b>	Disposal in compliance with legal regulations (ordinary landfill).
<b>Uncleaned packing:</b>	Packing is to be emptied completely and considering the valid in each case local or national regulations, prefers a re-use and/or an utilization supplying.

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**14. Transport information**

Land transport ADR/RID and GGVS/GGVE:	N/A
Inland waterway transport ADN/ADNR:	N/A
Sea transport IMDG/GGVsee / UN code:	N/A
Air transport ICAO/IATA / UN/ID code:	N/A

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**15. Regulatory information**

Identification acc. to EU directives:	The product is not subject to identification acc. to EU directives / GefStoffV
National regulations for BRD:	non-hazardous for water according to §19g Abs. 5 WHG

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**16. Other information**

**This information corresponds to our best knowledge and experience. We present it, however, without giving any guaranty as far as the material's technical performance and suitability for particular applications are concerned.**

**Changes in this version:**

- general revision
  - Section 11; 12; 13; 15
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