



MICROBEADS AG
Wambisterstrasse 1a, CH-5412 Gebenstorf / Switzerland
info@microbeads-ag.ch, www.microbeads-ag.ch

Trade name : Regular brown corundum

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

Issue date: January 2020

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1. Chemical product and company identification

Trade name: Regular brown corundum

Use of the material/the preparation:

blasting material (for mechanical surface processing)
filler
abrasive
fireproof and ceramic applications
production of wear-resistant materials

Supplier: MICROBEADS AG
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Emergency phone no.: 0041 56 441 16 11

2. Hazard identification

Critical hazard to man and environment:

EC/R: not applicable

3. Composition/Information on ingredients:

Chemical characterization (substance)

Definition according to EC directive: Aluminium oxide (Al₂O₃)
CAS-No.: 1344-28-1
EINECS-No.: 251-691-6

4. First Aid Measures

Inhalation: no special action required
Skin contact: no special action required
Eye contact: flush with plenty of water
seek medical advice if irritation persists
Ingestion: no special action required



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5. Fire-fighting measures

| | |
|---|---|
| General information | Product itself is inflammable |
| Suitable extinguishing media | use extinguishing media appropriate to the source of the fire |
| Extinguishing media which must not be used for safety reasons: | none known |
| Special exposure hazard arising from the substance itself, combustion products, resulting gases: | none know |
| Special protective equipment: | not applicable |

6. Accidental release measures

| | |
|-----------------------------------|---|
| Personal precautions: | Avoid dust information. Wear suitable respiratory protective equipment and gloves if exposure is considered to be likely. |
| Environmental precautions: | No special measures required |
| Cleaning procedure: | Take up material mechanically and dispose of in accordance to regulation. |

7. Handling and storage

| | |
|--|--------------------------------------|
| Handling: | |
| Precautions for safe handling: | Avoid dust information |
| Precautions against fire and explosion: | No danger of fire and dust explosion |
| Storage: | |
| Condition of storage rooms and vessels: | No special precautionary measures |
| Advice of storage of incompatible material: | None |
| Further information for storage: | None |



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8. Exposure controls/personal protection

Further information for system design

and engineering measures: Not applicable

Components with special control parameters as limit values:

Observe the local bylaws in terms of fine dust (e.g. TWA 10 mg /m³; MAK value 6 mg / m³; see also item 16)

Personal protection equipment:

General protection and hygiene measures:

Observe standard industrial hygiene

Respiratory protection:

Avoid inhaling the dust. Fine-dust mask category P1 filter must be used if fine dust limits are exceeded.

Eye protection:

Safety glasses are recommended

Hand protection:

Protective gloves are recommended

9. Physical and chemical properties

Shape: granulate resp. powder

Colour: brown, grey

Odour: odourless

Change of state: melting point: approx. 2000°C

Flash point: N/A

Flammability: N/A

Ignition temperature: N/A

Auto ignitability: N/A

Explosion risk: N/A

Explosion limits: N/A

Vapour pressure: N/A

Specific gravity: 3,70-4,50 g/cm³ by 20°C

Bulk Density: 500-2500 kg/m³

Solubility in water: Practically insoluble

pH value: N/A

n-octanol/water: N/A

10. Stability and Reactivity

General information: The material is stable, no hazardous reactions are well-know.

Condition to avoid: Not applicable

Material to avoid: Not applicable

Hazardous decomposition products: No known



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11. Toxicological information

General information: No hazardous effects known, if used properly.
No free silica included (see also item 16)

Acute toxicity: Not known

12. Ecological information

Information on elimination (persistence and degradability): Chemical inert and insoluble in water. Separation by mechanical processes (sedimentation, filtration etc.)

Behaviour in environment compartments: No environmental problems admitted

Ecotoxicity effects: On harmful effect on water organisms is not to be counted

Further ecological references: In the case of appropriate handling and use no environmental problems are to be expected.

13. Disposal considerations

Product: Could be stored with domestic waste. Observe local bye-laws

Contaminated packaging: Packaging has to be emptied entirely. Recycling of used packaging is recommended. Local bye-laws must be observed.

14. Transport information

Land Transport ADR/RID and GGVS/GGVE: non hazardous material

Inland waterway transport ADN/ADNR: non hazardous material

Sea transport IMDG/GGVS/UN: non hazardous material

Air transport ICAO/IATA UN/ID: non hazardous material



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15. Regulatory Information

Classification according to EC directives:

Danger symbol and danger-text of the material: none

EC / R: none

EC / S: none

National regulations:

e.g.: (Germany) Classification according VbF: not subjected to VbF
Water Pollution Category: not water polluting VwVwS
(Germany) dated 27.07.2005

16. Other 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.

Changes in this version:

- **general revision**
- **replace the version of 29.03.2007**