

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

Trade Name: High grade white corundum

Carl Martin GmbH - Neuenkamperstr. 80-86 - 42657 Solingen

Tel.: +49 (0)212 / 810044 - Fax: +49 (0)212 / 87345

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## **1. Chemical product and company identification**

### 1.1 Product name

High grade white corundum

### 1.2 Use of the material/the preparation

blasting material (for mechanical surface processing)

filler

abrasive

fireproof and ceramic applications production of wear-resistant materials

### 1.3 Manufacturer

Carl Martin GmbH

Neuenkamper StraBe 80-86

D-42657 Solingen

### 1.4 In case of emergency call

Tel.-Nr.: +49-(0)212-81 00 44

[info@carlmartin.de](mailto:info@carlmartin.de)

## **2. Hazard identification**

### 2.1 Critical hazards to man and environment

### 2.2 EC/R

not applicable

## **3. Composition/Information on ingredients**

### 3.1 Chemical characterization (substance)

### 3.2 Definition according to EC directive

Aluminium oxide (AL<sub>2</sub>O<sub>3</sub>)

### 3.3 CAS-No.

1344 - 28 - 1

### 3.4 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

Product itself is inflammable

### 5.2 Suitable extinguishing media

use extinguishing media appropriate to the source of the fire

### 5.3 Extinguishing media which must not be used for safety reasons

none Known

### 5.4 Special exposure hazards arising from the substance itself, combustion products, resulting gases

none Known

### 5.5 Special protective equipment

not applicable

## **6. Maßnahmen bei unbeabsichtigter Freisetzung**

### 6.1 Personenbezogene Vorsichtsmaßnahmen

Staubbildung vermeiden Persönliche Schutzausrüstung tragen (siehe auch Abschnitt 8.3)

### 6.2 Umweltschutzmaßnahmen

Keine besonderen Maßnahmen

### 6.3 Verfahren zur Reinigung:

Mechanisch aufnehmen und ordnungsgemäß entsorgen

## **7. Handling and storage**

### 7.1 Handling

### 7.2 Precautions for safe handling

Avoid dust formation

### 7.3 Precautions against fire and explosion

No danger of fire and dust explosion

### 7.4 Storage

### 7.5 Conditions of storage rooms and vessels

No special precautionary measures

### 7.6 Advice of storage of incompatible materials

None

### 7.7 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 special control parameters as limit values

Observe the local bylaws in terms of fine dust (e.g.: TWA: 10mg/m<sup>3</sup>

MAK: 6mg/m<sup>3</sup>, see also item 16)

8.3 Personal protection equipment

8.4 General protection and hygiene measures

Observe standard industrial hygiene

8.5 Respiratory protection

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

8.6 Hand protection

Protective gloves are recommended

8.7 Eye protection

Safety glasses are recommended

**9. Physical and chemical properties**

9.1 Form

granular resp. powder

9.2 Colour

white

9.3 Odour

Odourless

9.4 Change in physical state

melting point: approx. 2000 °C

9.5 Flashpoint

Not applicable

9.6 Flammability

Not applicable

9.7 Auto ignitability

Not applicable

9.8 Explosion risk

Not applicable

9.9 Explosion limits

Not applicable

9.10 Vapour pressure

Not applicable

9.11 Specific gravity

3,7-4,5 g/cm<sup>3</sup>

9.12 Bulk density

500-2500 kg/m<sup>3</sup>

9.13 Solubility in water

Practically insoluble

9.14 pH-value

Not applicable

9.15 Partition coefficient n-octanol/water

Not applicable

**10. Stability and Reactivity**

10.1 General information

The material is stable no hazardous reactions are well-known.

10.2 Conditions to avoid

Not applicable

10.3 Materials to avoid

Not applicable

10.4 Hazardous decomposition products:

Not 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)

Chemical inert and insoluble in water. Separation by mechanical processes (sedimentation, filtration etc.)

12.2 Behaviour in environment compartments

No environmental problems admits.

12.3 Ecotoxicity effects

On harmful effect on water organisms is not to be counted.

12.4 Further ecological references

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

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**13. Disposal considerations**

**13.1 Product**

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

**13.2 Contaminated packaging**

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

**14. Transport information**

**14.1 Land transport ADR/RID and GGVS/GGVE**

Non hazardous material

**14.2 Inland waterway transport ADN/ADNR**

Non hazardous material

**14.3 Sea transport IMDG/GGVsee / UN code**

Non hazardous material

**14.4 Air transport ICAO/IATA / UN/ID code**

Non hazardous material

**15. Regulatory information**

**15.1 Classification according to EC directives**

**15.2 Danger symbol and danger-text of the material**

none

**15.3 EC/R**

none

**15.4 EC/S**

none

**15.5 National regulations**

**15.6 e.g.: (Germany) Classification according VbF**

not subjected to VbF

**15.7 Water Pollution Category**

not water polluting VwVwS /(Germany) dated 27.07.2005 1)

**16. Other information**

**16.1 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

**16.2 Changes in this version**

- general revision

- replaces the version of 26.11.2008