

SAFETY DATA SHEET ALUMINIUM OXIDE

1. Identification of the product and of the company/undertaking:

1.1 Identification of the product:

...DURALUM.....

1.2 Use of the product:

.....Used in Abrasive, Refractory and Industrial applications.

1.3 Company identification:

Company: **WASHINGTON MILLS ELECTRO MINERALS LIMITED.**

Address: **MOSLEY ROAD, TRAFFORD PARK,
 MANCHESTER, M17 1NR,
 UNITED KINGDOM.**

Phone: **+44(0)161 848 0271** Fax: **+44(0) 161 872 2974**

E-mail: **sales@washingtomills.co.uk**

1.4 Emergency number:

+44 (0) 161 848 0271....

2. Hazards Identification

Not applicable

Abrasives are not dangerous substances or preparations according to directive 1999/45/EC.
 See also section 8 and 16.

3. Composition/Information on Ingredients

The product contains the following ingredients which are classified according to 67/548/EEC and 99/45/EC

| Name | EC Nr. (ELINCS/EINECS) | CAS N° | Concentration range | Classification |
|------------------|---------------------------|------------|------------------------|----------------|
| Aluminium Oxide | 215-691-6 | 1344-28-1 | 92 - 99% | Non-Hazardous |
| Titanium Dioxide | 236-675-5 | 13463-67-7 | 1.0 - 4.0% | |
| Silicon Dioxide | 231-545-4 | 7631-37-1 | 0.2 – 1.7% | Amorphous |
| Iron Oxide | 215-168-2 | 1309-37-1 | 0.1 – 1.5% | |

(For the full text of the R-phrases see section 16)

4. First Aid Measures

See also section 8 and 16

Inhalation: No special measure required.
 Eye contact: Flush with plenty of water. Seek medical advice if irritation persists
 Skin contact: No harmful effects known
 Ingestion: No special action required.
 Note to physician: Not available.

5. Fire Fighting Measures

Non flammable

Extinguishing media: water, foam, sand, powder or CO₂ as appropriate for surrounding materials

6. Accidental release measures

Personal precautions: Avoid dust formation (see also item 8.2.1.1)

Environmental precautions: No special measures required

Methods for cleaning up: Take up mechanically and dispose of in accordance to regulations

7. Handling and Storage

Handling:

Precautions for safe handling: Avoid dust formation

Precautions against fire and explosion: No danger of fire and dust explosion

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. Occupational exposure limit values and/or biological limit values

Keep exposure to the following components under surveillance

(Observe also the regional official regulations for dust)

| | Name | CAS No. | EC No. (ELINCS/EINECS) | Concentration limits (daily average value) | Short term value | Remarks |
|--|-----------------|-----------|---------------------------|--|---------------------|---------|
| | Aluminium Oxide | 1344-28-1 | 215-691-6 | 10mg m-3 8-hour TWA inhalable dust 4mg m-3 8-hour TWA respirable dust | N/A | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

8.2. Exposure controls

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection: Use respiratory protective equipment Fine-dust mask with category P1 filter must be used if fine dust limits are exceeded.

8.2.1.2. Hand protection: Wear protective gloves – recommended.

8.2.1.3. Eye protection: Wear protective goggles or face shield

8.2.1.4. Body protection: Use protective clothing – recommended.

9. Physical and Chemical Properties

9.1 Physical state: grains, powder.
 9.2 Colour: Brown, bluish, grey, black, white, pink.
 9.3 Solubility in water: Insoluble.

10. Stability and Reactivity

Stability
 The material is stable, no hazardous reactions known.

Reactivity

10.1 Conditions to avoid:
 No decomposition in normal use.

10.2 Materials to avoid:
 No dangerous reactions known.

10.3 Hazardous decomposition products:
 No hazardous decomposition products known.

11. Toxicological Information

No toxicological effects if inhaled or swallowed or with eye or skin contact are known.
 See also section 8.

12. Ecological Information

| | | |
|------|--------------------------------|-----------------------------------|
| 12.1 | Ecotoxicity: | no effects known |
| 12.2 | Mobility: | no potentials known |
| 12.3 | Persistence and degradability: | no biodegradable potentials known |
| 12.4 | Bioaccumulative potential: | no potentials known |
| 12.5 | Other hazardous effects: | no effects known |

13. Disposal Considerations

13.1. Product
 Follow national and regional regulations!

Due to the ingredients and properties disposal as non hazardous waste (2000/532/EC) is possible if no hazardous materials are added to the abrasives. (EWC – Nr. 120121),

Due to the ingredients and properties disposal as hazardous waste (2000/532/EC) (EWC – Nr. 120120)

13.2. Packing
 Follow national and regional regulations!

14. Transport Information

The product is not covered by international regulation on the transport of dangerous goods.

15. Regulatory Information

No specific labelling requirements under respective EC directives

16. Other Information

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The above information is based on our current standard of knowledge and does not constitute any warranty of conditions of the product. The information does not form part of any contractual agreement. It remains the user's responsibility to adhere existing laws and regulations.

Issued by: C.Wood.....

Contact: Technical Manager.....