

## Sintox & Deranox Materials

### 1.0 Identification of Substance / Preparation and the Company / Undertaking

**Trade Name** : **Sintox & Deranox Material**  
**Product** : Fully sintered alumina products for use in engineering applications.  
**Supplier** : Morgan Technical Ceramics  
4 Central Park Drive  
Central Park  
Rugby  
Warwickshire  
England  
CV23 0WE  
  
Tel : +44 (0) 1788 542166  
Fax: +44 (0) 1788 539201

### 2.0 Composition and Information on Ingredients

| Chemical Name                | CAS N°    | EINECS N° / ELNECS N° | Concentration | Hazard Symbol | R Phrase |
|------------------------------|-----------|-----------------------|---------------|---------------|----------|
| Aluminium Oxide<br>(as dust) | 1344/28/1 | -                     | 94-99.9%      | -             | -        |

### 3.0 Hazard Identification

Non-hazardous as bulk solid. If ground, dust may cause irritation to eyes and breathing passages.

**Inhalation** : If ground, dust should be controlled as nuisance dust.  
**Skin Contact** : None  
**Eye Contact** : If ground, dust is abrasive.  
**Ingestion** : None  
**Environment** : None

### 4.0 First-Aid Measures

**Inhalation** : For dust only, remove from exposure to fresh air.  
**Skin Contact** : None.  
**Eye Contact** : For dust only, rinse with plenty of water. Because of the abrasive nature of the dust, slight abrasion may occur if agitated. If symptoms persist, seek medical advice.  
**Ingestion** : For dust only, rinse mouth with water. Seek medical advice.

## Material Safety Data Sheet

### 5.0 Fire Fighting Measure

Product is non-combustible.

**Extinguishing Media** : Not applicable  
**Flash Point** : Not applicable  
**Hazardous Products of Combustion** : Not applicable

### 6.0 Accidental Release Measures

No special requirements.

### 7.0 Handling and Storage

No special requirements.

### 8.0 Exposure Controls / Personal Protection

| Chemical Name             | WEL 8 Hrs TWA  | WEL 15 mins. STEL |
|---------------------------|--|-------------------|
| Aluminium Oxide (as dust) | 10mg m <sup>-3</sup> total inhalable<br>4mg m <sup>-3</sup> respirable | -                 |

Material is brittle. In areas where the material may be physically abraded or chipped, wear suitable protective equipment to protect against abrasive dust (face mask and eye protection) or impact ejection of material – eye protection.

### 9.0 Physical Properties

**Appearance** : White or pink solid.  
**Odour** : None.  
**Melting point** : >2000°C  
**Boiling Point** : ~3000°C  
**Flash Point** : Not applicable  
**Fire Point** : Not applicable  
**Auto-ignition temperature** : Not applicable  
**Flammability** : Not applicable  
**Explosive Properties** : Not applicable  
**Vapour Pressure** : Nil  
**Bulk Density** : 3.68 – 3.96 g/cm<sup>3</sup>  
**Solubility in water** : Insoluble  
**pH** : Not applicable  
**Viscosity** : Not applicable

## Material Safety Data Sheet

### 10.0 Stability And Reactivity

**Stability** : Stable under normal conditions.  
**Hazardous reactions** : None known.  
**Materials to Avoid** : None known.  
**Hazardous Decomposition Products** : None known.

### 11.0 Toxicological Information

Aluminium oxide is not listed as a hazardous material. Dust may be a low toxicity irritant.

### 12.0 Ecological Information

Aluminium oxide will not decompose, but is present in certain naturally occurring minerals and is not considered as a risk to the environment.

### 13.0 Disposal Considerations

Disposal should be in accordance with local, state or national regulations.

### 14.0 Transport Information

Not listed as dangerous for transport.

### 15.0 Regulatory Information

**Classification** : Not classified as hazardous.  
**Symbol** : None  
**Risk Phrases** : None.  
**Safety Phrases** : None.

### 16.0 Other Information

This sheet has been produced to aid customers.

Hazards concerned with the use of the material will be dependent on the application. It is the responsibility of the user to ensure that the material is used in a safe manner.

The information given is believed to be reliable and is based current knowledge of the material. Information herein, in no way constitutes a specification or contract and no guarantee can be given for its accuracy.