

## FUSED ALUMINA

### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

#### Product Identification

Product Name Fused Alumina

Other Names White Fused Alumina, Alumina, Aluminium Oxide

Recommended Uses Production of Refractories, Abrasives and Ceramics.

#### Supplier Identification

Company Doral Fused Materials Pty. Ltd.  
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### 2. HAZARD IDENTIFICATION

White Fused Alumina is not classified as hazardous according to criteria of Worksafe Australia.

Risk Phases (R-Phrases) None

Safety Phrases (S-Phrases) None

UN Number None Allocated

Class and Subsidiary Risk None Allocated

Hazchem Code None Allocated

Poisons Schedule Number None Allocated

#### Potential Health Effects

##### Acute

Swallowed No known adverse effects.

Eye May irritate eyes due to granular particle nature.

Skin Not absorbed through skin. May cause abrasions.

Inhaled Low health risk by inhalation. May cause coughing and shortness of breath.

**Chronic** There have been no reports in the literature of health effects in workers arising from long term exposure to this substance, and no comprehensive human studies have been conducted. No animal studies have been conducted for long term effects.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients (typical)	CAS Number	EINECS Number	Proportion %
Aluminium Oxide	1344-28-1	215-691-6	≥ 99.6

### 4. FIRST AID MEASURES

Swallowed Drink large amounts of water. Do **not** induce vomiting. Consult a doctor immediately.

Eyes Hold eyelids open and wash continuously with water for 15 minutes. Do not rub eyes. Seek medical attention.

Skin No irritation is likely to develop following contact with skin. Remove clothing and wash off with soap and water. Contact a doctor if an irritation persists.

Inhaled Remove from exposure to fresh air. If breathing is laboured or stopped, give artificial respiration. Get immediate medical attention.

First Aid Facilities No special requirements.

Advise to Physician Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Flashpoint None

Flammability Limits Non-flammable

General Hazard This product is not flammable and does not support combustion.

Extinguishing Media Use media suitable for the material that is burning.

## 6. ACCIDENTAL RELEASE MEASURES

Spills and disposal Clean up by sweeping and collection of dry material, avoid dusting.

Wear safety equipment as for normal handling. Avoid generating dust. Vacuum up if possible, otherwise sweep up and re-cycle. If the spilled product is not suitable for re-use, damp down, collect and where possible return to manufacturer for reprocessing. Any disposal to an approved landfill site and cover with clean fill shall be conducted in accordance with State/Local Council regulations.

## 7. HANDLING AND STORAGE

Handling Avoid breathing dust. Suitable dust controls, including wearing a suitable respirator, should be utilised when handling bulk materials. Wash thoroughly after handling. If handling alumina it is advisable to also use gloves and wash hands before eating, drinking or smoking to minimise inhalation or ingestion from hands.

Storage Keep dry. Store separate from hydrofluoric acid.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Proportion (wt %)</b>	<b>NOHSC TWA</b>	<b>ACGIH TLV</b>
Aluminium Oxide (Alumina)	1344-28-1	≥ 99.6	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

Engineering Controls Use with adequate ventilation. Limit dust formation as far as possible to meet exposure limits listed above.

Personal Protection Use dust respirator and face mask to cover eyes, nose and mouth. The use of impervious gloves and protective clothing is recommended to reduce unnecessary contact with skin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White crystalline powder, or granules  
Boiling Point Not Applicable  
Melting Point 2050°C  
Vapour Pressure Not Applicable  
Specific Gravity 3.96  
Flashpoint None  
Flammability Limits Non-flammable  
Solubility Insoluble in water, soluble in some concentrated acids (pH <4) and alkalies (pH >9)  
Bulk Density: 1.3 - 1.9 g/cm<sup>3</sup>

**Additional Information** Not Applicable

## 10. STABILITY AND REACTIVITY

Reactivity Inert  
Chemical Stability Stable  
Incompatibilities None in normal or expected use  
Decomposition Decomposition will not occur

## 11. TOXICOLOGICAL INFORMATION

This product is non-toxic. Refer to section 2 - Hazards Identification.

## 12. ECOLOGICAL INFORMATION

This material is unlikely to cause any environmental damage. It is insoluble in water and is unlikely to contaminate waterways or food chains.

## 13. DISPOSAL CONSIDERATION

Disposal must be in accordance with Federal, State and Local Council regulations. If approved, may be transferred to an approved landfill site.

## 14. TRANSPORT INFORMATION

Not defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road or Rail.

## 15. REGULATORY INFORMATION

National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition – NOHSC:2011(2003)

## 16. OTHER INFORMATION

Labelling	Labelling not required according to EC-Dir. 67/548, as amended.
Other Information	This MSDS has been prepared by Doral Fused Materials, Safety Health and Environment Department.
Date of Issue	10/02/2009
Replaces	19/09/2008

This MSDS is valid for five (5) years from the date of issue but readers should refer to Doral's website ([www.doral.com.au](http://www.doral.com.au)) to ensure that this is the latest issue. As per the Worksafe Guidance Note NOHSC 3017, each user should review the information in the specific context of the intended application.

### Abbreviations

mg/m <sup>3</sup>	Milligram per cubic metre
ASCC	Australian Safety and Compensation Commission
TLV	Threshold Limit Value
TWA	Time Weighted Average

End of MSDS