

SAFETY DATA SHEET – Aluminium Oxide

Product name : **Aluminium Oxide**

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Other means of identification : Fused Alumina
Alodur

Recommended use : **Abrasive applications,**
Refractories and ceramic applications, production of wear-resistant materials, Surface treatment, fillers

Supplier : Dana-Ridge
12/67 Bancroft Road
Pinkenba QLD 4008
Australia

Manufacturer : Imerys Fused Minerals Villach GmbH
PB No. 1 / Seebach 2
A- 9523 Villach Austria
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Emergency telephone number : Dana-Ridge 1800-806-316

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Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Classification EC 1272/2008(CLP)	Not classified as hazardous goods
EC 67/548/EEC or 1999/45/EC	No Hazards characteristics, No R- or H-Phrases

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical characterization (substance):

Definition according to EC directive	Aluminium oxide (Al ₂ O ₃)
CAS No.:	1344 - 28 - 1
EINECS No.:	215 - 691 – 6

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REACH Reg. No.:	01-2119529248-35-0034
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Section: 4. FIRST AID MEASURES

Description of first aid measures

General	
Eye Contact	Flush with plenty of water. Seek medical advice if irritation persists
Skin Contact	Mechanical (dry) removal. Subsequent rinsing with water.
Inhalation	Move to fresh air, Consult a physician if necessary
Ingestion	Rinse out mouth and give water to drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	Not inflammable. Use extinguishing measures appropriate to the source of the fire
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Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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Advice for firefighters

Extinguishing media which must not be used for safety reasons:	None known.
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Fire/Explosion Hazard	None known.
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Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid dust formation. In case of exposure to high levels of airborne dust, wear personal protective equipment (see also item 8)
Environmental precautions	No special measures required
Methods for cleaning up	Pick up mechanically and dispose of in accordance to regulations

Section: 7. HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Avoid dust formation No danger of fire and dust explosion
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Conditions for safe storage, including any incompatibilities

Suitable Container	No special precautionary measures
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Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values	Not applicable
Components with specific control parameters as limit values	Observe the local by-laws in terms of fine dust (e.g.: OSHA-PEL value 15 mg/m ³ total dust; 5 mg/m ³ for respirable dust; TRGS 900 10 mg/m ³ respirable, 3 mg/m ³ alveolar)

Exposure controls

Respiratory protection	Avoid inhaling the dust Fine-dust mask with category P2 filter must be used if fine dust limits are exceeded.
Hand protection	Protective gloves are recommended
Eye protection	Safety glasses are recommended
General protection and hygiene measures	Observe standard industrial hygiene practice
Environmental exposure controls	No special exposure controls required

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grains, powder
Form	
Colour	Brown, Bluish, Grey, Black, White, Pink
Odour	Odourless
Safety relevant basic parameters	
Change in physical state	melting point approx. 2000°C
Flash point	Not applicable
Flammability	Not flammable
Ignition temperature	Not applicable
Auto flammability	Not auto flammable
Oxidizing properties	Not applicable
Explosive properties	Not applicable
Explosive limits	Not applicable
Vapour pressure	Not applicable
Specific gravity	(3,7 - 4,5) g/cm ³
Bulk density	(500- 2500) kg/m ³
Solubility in water	Practically insoluble
pH value	Not applicable
Partition coefficient n-octanol/water	Not applicable

Section: 10. STABILITY AND REACTIVITY

Reactivity	None Known
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Chemical stability	The material is stable, no hazardous reactions known
Conditions to avoid	None

Section: 11. TOXICOLOGICAL INFORMATION

Toxicokinetic	No bio accumulating potential
Acute effects/toxicity tests) oral	Not applicable. Not a relevant exposure route
Dermal	Not applicable
Inhalation	Not applicable
Skin irritation	Not irritating
Skin corrosion	Not corrosive
Sensitisation	Not sensitising
Eye irritation	Not irritating
Repeated dose Toxicity	
Oral	Not applicable. Not a relevant exposure route
Inhalation	not applicable
CMR effects	There is no evidence of any CMR effects

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity	No harmful effects on water organisms Anticipated. The substance is highly insoluble in water.
Mobility - distribution to terrestrial compartments:	Not Applicable
Persistence and degradability	Not applicable for inorganic substances
Results of PBT assessment	Aluminium oxide is not a PBT substance
Other adverse effects	None

Section: 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	Reuse or recycle when possible. Can be stored with domestic waste. Observe local by-laws
Contaminated packaging	Packaging has to be emptied entirely. Recycling of used packaging is recommended. Local bye-laws must be observed

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Section: 14. TRANSPORT INFORMATION

Land transport: GGVS / ADR - classification: GGVE / RID	Not classified as hazardous material
Inland waterways GGVBisich / ADNR - classification	Not classified as hazardous material
Maritime transport GGVSee / IMDG - classification	Not classified as hazardous material
Air transport ICAO-TI / IATA - classification	Not classified as hazardous material
UN Number	None Allocated
Hazchem Code	None Allocated
Dangerous Goods	None Allocated
Class and sub-risk	None Allocated
Poisons Schedule	Not scheduled

Section: 15. REGULATORY INFORMATION

Classification according to EC guidelines	
Labelling EC No 1272/2008	The product is not classified. No hazard symbol is necessary.
Labelling (67/548/EEC or 1999/45/EC)	None
Hazard symbols	None
Water Pollution Category	Not water polluting

Section: 16. OTHER INFORMATION

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Prepared by Dana-Ridge

Relevant R-and H-Phrases: None

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.

- 1.1 **Australia: This material data sheet is prepared according to the 16-header format adopted by the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)].**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe

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handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.