

**Dana-Ridge**

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**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  
Pickenba QLD 4008  
Australia**Manufacturer** : Imerys Fused Minerals Villach GmbH  
PB No. 1 / Seebach 2  
A- 9523 Villach Austria  
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ifm-vi@imerys.com 0043 4242 4188 5 – 245**Emergency telephone number** : Dana-Ridge 1800-806-316**Issuing date** : 04.10.2022**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 <sub>2</sub> O <sub>3</sub> )
CAS No.:	1344 - 28 - 1
EINECS No.:	215 - 691 - 6

**SAFETY DATA SHEET – Aluminium Oxide**

REACH Reg. No.:

01-2119529248-35-0034

**Section: 4. FIRST AID MEASURES****Description of first aid measures**

General	
<b>Eye Contact</b>	Flush with plenty of water. Seek medical advice if irritation persists
<b>Skin Contact</b>	Mechanical (dry) removal. Subsequent rinsing with water.
<b>Inhalation</b>	Move to fresh air, Consult a physician if necessary
<b>Ingestion</b>	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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**SAFETY DATA SHEET – Aluminium Oxide**

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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**SAFETY DATA SHEET – Aluminium Oxide****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 <sup>3</sup> total dust; 5 mg/m <sup>3</sup> for respirable dust; TRGS 900 10 mg/m <sup>3</sup> respirable, 3 mg/m <sup>3</sup> 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
<b>Safety relevant basic parameters</b>	
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 <sup>3</sup>
Bulk density	(500- 2500) kg/m <sup>3</sup>
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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**SAFETY DATA SHEET – Aluminium Oxide**

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
<b>Repeated dose Toxicity</b>	
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

**SAFETY DATA SHEET – Aluminium Oxide****Section: 14. TRANSPORT INFORMATION**

Land transport: GGVS / ADR - classification: GGVE / RID	Not classified as hazardous material
Inland waterways GGVBisch / 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**

<b>Classification according to EC guidelines</b>	
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**

Issuing date : 04.10.22  
version : 2.0  
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

**SAFETY DATA SHEET – Aluminium Oxide**

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.