

GEMCUTS PTY LTD

Date of Issue 19-12-2021

**SAFETY DATA SHEET
ALUMINIUM OXIDE**

IMPORTANT NOTICE: This Safety Data Sheet (SDS) is issued by Gemcuts Pty Ltd in accordance with National Occupational Health and Safety Commission guidelines. The information contained in this document must not be added to, deleted or altered. Gemcuts Pty Ltd will issue a new SDS when there is a change in the product specifications and/or with the National Occupational Health and Safety Commission guidelines/ regulations. Gemcuts Pty Ltd will not accept any responsibility for any changes made to its SDS in content by any other person or organisation.

CLASSIFICATION OF MATERIAL

This material is Not hazardous according to health criteria of Worksafe Australia

1. IDENTIFICATION OF THE MATERIAL & SUPPLIER

Product	Aluminium Oxide, Alumina
Recommended Use	Polishing, adsorbent, refractory material, catalyst.
Supplier/Importer	Gemcuts Pty Ltd
ABN	43 780 687 841
Manufacturer	Gemcuts Pty Ltd
Address	36A Smith Drive, West Ballina NSW 2478
Telephone Number	02 66811686
Facsimile	N/A
Email	admin@gemcuts.com.au
Emergency Telephone	131126 Poisons Information Centre 0427012014

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2. HAZARDS IDENTIFICATION

2.1 Signal Word:

None

2.2 Hazards Classification:

N/A

2.2 Hazard Category:

Non-Hazardous substance. Non-Dangerous Goods

2.3 Hazard Phrase(s):

N/A.

2.4 Precaution Phrase(s):**P260:** Do not breath dust.**Emergency Overview:** Always avoid breathing dusts created by this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product Description: White powder.**3.2 Contents**

Chemical Name	CAS Number	Proportion %
Aluminium Oxide (Al ₂ O ₃)	1344-28-1	100%

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre,**Phone (Australia) 131 126****Inhalation:** Give clean air to breathe**Skin Contact:** Not a known irritant, if reaction occurs wash with plenty of water**Eye Contact:** Wash with plenty of water**Ingestion:** Consult a doctor if symptoms persist

Always seek medical attention if in doubt or symptoms persist

Notes to physician: Treat symptomatically.

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5. FIRE FIGHTING MEASURES

- 5.1 Explosion Hazard: None known, not combustible.
- 5.2 Fire Fighting Advice: Fire fighters should use self-contained breathing apparatus.
- 5.3 Suitable Extinguishing Media: Anything suitable to the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Emergency Action:

Avoid release into the water ways.

Avoid breathing in dust. Wear appropriate PPE.

Pick up spilt material mechanically. Place into suitable containers if material cannot be recovered, transfer to waste container and dispose in local landfill in compliance with Local, State and Commonwealth regulations.

7. HANDLING & STORAGE

- 7.1 **Handling Advice:** Avoid breathing in dust created. Wear appropriate PPE.
Good industrial hygiene practice is recommended.
- 7.2 **Storage Advice:** Store at room temperature in a dry place with the lid on.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Occupational Exposure Limits:

Aluminium Oxide (Al₂O₃) TWA 10mg/m³

No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m³. All atmospheric contamination should be kept to as low a level as is workable

8.2 Engineering Control Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation and while wearing a dust mask.

8.3 Personal Protective Equipment:

OVERALLS, GOGGLES, GLOVES, APPROVED DUST MASK.

Wear overalls, Safety glasses and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking, or using the toilet, Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Solid
Colour:	White
Odour:	Odourless
Solubility:	Practically Insoluble
Size (millimetres):	Various. Powder like substance
Weight (grams):	Various
Density:	4
Boiling Point (°C):	2977°C
Melting Point (°C)	2030°C

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10. STABILITY & REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Heat >1613°C and exposure to moisture

Hazardous Reactions: Will not occur under normal conditions. Aluminium oxide reacts violently with chlorine trifluoride, producing flame. Contact with ethylene oxide may cause violent polymerisation

Incompatible Materials: Strong Acids and Bases, Sodium Nitrate

11. TOXICOLOGY INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Gastrointestinal complaints

Eye Contact: Irritation due to abrasion

Skin Contact: Possible irritant due to abrasion

Inhalation: Irritation can occur

Chronic: Aluminium oxide dust may accumulate in the lungs if high concentrations are inhaled. 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.

Mutagenicity: None known

12. ECOLOGICAL INFORMATION

Insoluble in water. All ingredients are inert in the environment under normal conditions.

Mobility in soil: No Data

Degradability: No Data

Bioaccumulate Potential: No Data

13 DISPOSAL CONSIDERATIONS

Not classified as hazardous. Commonwealth, State and Local laws governing disposal of material can differ. Ensure proper disposal compliance with the proper authority before disposal.

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14. TRANSPORT INFORMATION

- 14.1 **Road and Rail Transport:** Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail
- 14.2 **Marine Transport:** Not Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
- 14.3 **Air Transport:** Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
- 14.4 **Proper Shipping Name:** N/A

15. REGULATORY INFORMATION

Work Health and Safety Regulation 2017 Chapter 3 Part 3.2 Division 7

Managing risks from airborne contaminants

Safework Australia

AS/NZS 1715

AS/NZS 1716

16. OTHER INFORMATION

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Gemcuts Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Gemcuts Pty Ltd at the contact details on page 1.

Gemcuts Pty Ltd responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.