


UNIMIN

Material Safety Data Sheet

UNIMIN CALCINED ALUMINA PRODUCTS

Infosafe™ No. LPV3D
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Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name UNIMIN CALCINED ALUMINA PRODUCTS
Product Code
Company Name Unimin Australia Limited (ABN 20 000 971 844)
Address 49-55 Woodlands Drive Braeside
 Victoria 3195
Emergency Tel. 1800 638 556
Telephone/Fax Number Tel: (03) 9586 5400
 Fax: (03) 9586 5413
Recommended Use Used in aluminium smelting, glass production and in refractory and abrasive products.

Other Names	Name	Product Code
	100	
	300	

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as Hazardous according to criteria of Australian National Occupational Health & Safety Commission (NOHSC), Australia.
 Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Undertake health and safety risk assessment on safe methods of handling and use appropriate to your workplace.

Safety Phrase S22 Do not breathe dust.

(s) S38 If insufficient ventilation, wear suitable respiratory equipment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Quartz	14808-60-7	<1%
	Alumina	1344-28-1	>96%
	Corundum		<1%
	Calcite and Gibbsite		<1%
Other Information	Contains <1% respirable crystalline silica in the form of quartz.		

4. FIRST AID MEASURES

Inhalation	Move the affected person to fresh air. Ensure airways are clear. Keep at rest. Seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.
Skin	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Eye	If contact with the eyes occurs, wash with running water for several minutes holding eyelids open. If irritation develops seek medical attention.
First Aid Facilities	Eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use appropriate fire extinguishing media for surrounding combustible materials involved in the fire.
Hazards from Combustion Products	Smoke, fumes and dust may be generated in a large fire.
Specific Methods	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes, dust or products of combustion.
Specific	The product is not combustible, however the packaging may burn

Hazards under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Other Information Wear sufficient respiratory protection and full protective clothing to minimise exposure. Vacuum or sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust. Seal all wastes in labelled containers for subsequent recycling or disposal. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Prevent the creation of dust concentration higher than the occupational exposure limit. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using the product.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area. Protect containers/bags from damage. Avoid generation of dust.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL	STEL	TWA	TWA	FootNote
		(mgm3)	(ppm)	(mgm3)	(ppm)	
	Alumina			10		
	Quartz			0.1		

Other Exposure Information No exposure standard is established for this material by the National Occupational Health & Safety Commission (NOHSC), Australia, however the exposure standard for respirable crystalline silica, in the form of quartz, as set by NOHSC is given above.
 Note: The exposure limit for dust otherwise not specified is TWA 10 mg/m³ (inspirable fraction).
 TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Engineering Controls Good ventilation adequate to maintain the concentration below exposure standards is required. The use of a local exhaust ventilation system (drawing dusts away from workers breathing zone) is recommended. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable particulate filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance

of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.

Body Protection Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist.

Hygiene Measures Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White powder.

Boiling Point Not applicable

Solubility in Water Insoluble

Specific Gravity 3.42

pH Value 10.0 (20% slurry)

Vapour Pressure Not applicable

Flash Point Not applicable (non-combustible solid).

Flammability Non-combustible solid.

Auto-Ignition Temperature Not applicable

Flammable Limits - Lower Not applicable

Flammable Limits - Upper Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability Stable

Hazardous**Polymerization** Will not occur.

11. TOXICOLOGICAL INFORMATION

- Inhalation** Inhalation may cause the drying and irritation of the respiratory tract. Acute aspiration may cause cough, dyspnea, sneezing, vomiting, cyanosis, and pulmonary edema which may be delayed by up to several hours.
- Ingestion** Ingestion of large amounts may irritate the gastric tract causing nausea and vomiting.
- Skin** Skin contact may cause dryness. May cause mild irritation in the case of some individuals with sensitive skin.
- Eye** Eye contact may cause mechanical irritation.
- Chronic Effects** Repeated, prolonged or concentrated inhalation may cause delayed lung injury. Breathing of dust may cause shortness of breath, and aggravate asthma and inflammatory or fibrotic pulmonary disease. Prolonged or repeated contact with the skin in the absence of proper hygiene, may cause dryness and dermatitis.
- Carcinogenicity** The product contains a small proportion of respirable crystalline silica as quartz (<1%). Crystalline silica has been classified by International Agency for Research on Cancer (IARC) as carcinogenic to humans by inhalation (Group 1) Furthermore, crystalline silica can cause silicosis or other lung diseases on prolonged exposure.

12. ECOLOGICAL INFORMATION

- Ecotoxicity** Not available
- Persistence / Degradability** Not available
- Mobility** Not available
- Bioaccumulative Potential** Not available

13. DISPOSAL CONSIDERATIONS

- Waste Disposal** The disposal of the waste or spilled material must be done in accordance with the applicable local, state and federal government regulations.

14. TRANSPORT INFORMATION

Transport Information The product is not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Regulatory Information Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not scheduled according to the Standard for the Uniform Scheduling of Drugs and Poisons.

Poisons Schedule Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS created: January 2006

Contact Person/Point Emergency Advice: ACOHS ERS - 1800 638 556 (24 Hours)

PLEASE NOTE:

The information contained herein is based on data available to Unimin Australia Limited from both our own technical sources and from recognised published references and is believed to be both accurate and reliable. Unimin Australia Limited has made no effort to censor nor to conceal deleterious aspects of this product. Since we cannot anticipate or control the many different conditions under which this information and our products may be used, each user should review these recommendations in the specific context of the intended application and confirm whether they are appropriate. It is therefore recommended that you undertake your own risk assessment in relation to your method of handling and proposed use of this product. Unimin Australia Limited accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained herein.

End of MSDS

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