

Material Safety Data Sheet

UNIMIN ALUMINA HYDRATE PRODUCTS

Infosafe No. LPV32 **Issue Date** January 2006 **Status** ISSUED by UNIMINAU

Not classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name UNIMIN ALUMINA HYDRATE 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 as a flame retardant and smoke suppressant filler for plastics and rubber.

Other Names

Name

Product Code

AH13

AH50

AH80

AS302

AS303

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.

**Risk Phrase
(s)**

**Safety
Phrase(s)** S22 Do not breathe dust.
S38 If insufficient ventilation, wear suitable respiratory equipment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Quartz	14808-60-7	<1%
	Gibbsite		>99%

**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
Hazards** The product is not combustible, however the packaging may burn 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 (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)	FootNote
	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	Odourless, white powder.
Boiling Point	Not applicable
Solubility in Water	Insoluble
Specific Gravity	2.44
pH Value	9.0 (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.
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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.
Storage and Transport	Not classified as dangerous goods.

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.
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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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