



CLAYMAN

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SAFETY DATA SHEET

5100	ALUMINA HYDRATE
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1. Identification of substance/preparation and of the company undertaking	
Trade Name:	Alumina Hydrate
Chemical Name:	Alumina Hydroxide
Synonyms:	Aluminium trihydrate

2. Composition /information on ingredients			
Component	CAS	EINECS	% of composition
Aluminium hydroxide $Al(OH)_3$	21645-51-2	2444927	> 95
The material is not classified as dangerous to health or the environment for labelling purposes (EC Directives and UK Regulations).			

3. Hazards Identification	
Inhalation	Excessive exposure may cause symptoms of chronic lung disease
Ingestion	The material is of low solubility in body fluids and it is likely to be of low acute toxicity
Eyes	May cause physical irritation and inflammation
Skin	The material is not a primary irritant but as with any abrasive powder it may give rise to minor irritation

4. First Aid Measures	
Inhalation	Remove patient to fresh air, loosen clothing, and seek medical attention.
Ingestion	Do not induce vomiting but seek medical advice.
Eyes	Wash immediately with copious amount of water.
Skin	Wash affected areas with water.



5. Fire Fighting Hazards	
Extinguishing media	Suitable for surrounding fire conditions
Special exposure hazard	None
Personal protective equipment	None other than required for surrounding fire conditions

6. Accidental Release Measure	
Leaks and spills	Use suitable vacuum equipment where reasonably practicable otherwise damp down and scoop into a receptacle.
Personal protective equipment	Respiratory protective equipment

7. Handling & Storage	
Handling	Do not eat drink or smoke in areas where the material is used. Wash thoroughly after handling the material
Storage	Store in a dry area

8. Exposure Control/Personal Protection	
Engineering controls	Adequate ventilation should be provided so the Occupational Exposure Limits are not exceeded
Personal protective equipment	Where necessary, suitable personal protection should be used (e g overalls, gloves, mask)

9. Physical & Chemical Properties	
Appearance & odour	White powder, odourless
Flash point (°C)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	None
Specific gravity	Approx. 2.5.
pH value	7 (Insoluble in water)
Melting point (° C)	Loses water above 200° C

10. Stability & Reactivity	
Chemical stability	The material is stable
Conditions/materials to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerization products	None



11. Toxicological Information			
Acute toxicity	LD50	Oral (rat)	>2000 mg/kg
	LD50	Dermal	Not known
	LD50	Inhalation	Not known
Health Effects	Prolonged or repeated exposure above Occupational Exposure Limits may cause fibrosis of the lungs.		

12. Ecological Information	
Ecotoxicity	Not Known
Persistence	The material is chemically stable and will persist in the environment.

13. Disposal Considerations	
Dispose of in accordance with the current Waste Disposal Regulations (for U K Special Waste regulations 1996). Landfill is the most appropriate method.	

14. Transport Information		
UN/SI No	Not restricted	
UN Class	Not restricted	
Packing group	Not restricted	
Road	UK	Not restricted
	ADR	Not restricted
Sea	IMO	Not restricted
Air	ICAO	Not restricted

15. Regulatory Information			
EC Supply labelling	None required by relevant EU directives and UK regulations.		
R Phrases	None		
S Phrases	S22	Do not breathe dust.	
UK Occupational exposure limits (Refer to HSE Guidance note EH40)	Mg/m ³	8 hr TWA	% in material
Dusts – Total Inhalable		10	>95
Dusts – Total Respirable		4	
In accordance with the H S E Approved Code of Practice for CHIP. The recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.			



16. Other Information	
References	
ADR	European agreement concerning international transport of dangerous goods by road.
CAS	International reference numbers for chemical substances (Chemical Abstracts Service).
CHIP	Chemicals (Hazard Information and Packaging) regulations 1993, and later revisions.
CHIP SDS ACOP	H S C Approved Code of Practice for Safety Data Sheets in accordance with regulations 6 of the CHIP regulations.
COSHH ACOP	H S C Approved Code of Practice for the Control of Substances Hazardous to Health regulations 1988, and later revisions.
EINECS	European Inventory of Existing commercial Chemical Substances.
HSE EH40	H S E Guidance note EH40 on Occupational Exposure Limits (revised annually), to be used in conjunction with the COSHH regulations.