



# SAFETY DATA SHEET

5100

ALUMINA HYDRATE

## 1. Identification of substance/preparation and of the company undertaking

<b>Trade Name:</b>	Alumina Hydrate
<b>Chemical Name:</b>	Alumina Hydroxide
<b>Synonyms:</b>	Aluminium trihydrate

## 2. Composition /information on ingredients

Component	CAS	EINECS	% of composition
Aluminium hydroxide AL(OH) <sub>3</sub>	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

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

## 4. First Aid Measures

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



## 5. Fire Fighting Hazards

<b>Extinguishing media</b>	Suitable for surrounding fire conditions
<b>Special exposure hazard</b>	None
<b>Personal protective equipment</b>	None other than required for surrounding fire conditions

## 6. Accidental Release Measure

<b>Leaks and spills</b>	Use suitable vacuum equipment where reasonably practicable otherwise damp down and scoop into a receptacle.
<b>Personal protective equipment</b>	Respiratory protective equipment

## 7. Handling & Storage

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

## 8. Exposure Control/Personal Protection

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

## 9. Physical & Chemical Properties

<b>Appearance &amp; odour</b>	White powder, odourless
<b>Flash point (°C)</b>	Not applicable
<b>Flammability</b>	Not applicable
<b>Explosive properties</b>	Non-explosive
<b>Oxidising properties</b>	None
<b>Specific gravity</b>	Approx. 2.5.
<b>pH value</b>	7 (Insoluble in water)
<b>Melting point (°C)</b>	Loses water above 200° C



## 10. Stability & Reactivity

<b>Chemical stability</b>	The material is stable
<b>Conditions/materials to avoid</b>	None known
<b>Hazardous decomposition products</b>	None known
<b>Hazardous polymerization products</b>	None

## 11. Toxicological Information

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

## 12. Ecological Information

<b>Ecotoxicity</b>	Not Known
<b>Persistence</b>	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

<b>UN/SI No</b>	Not restricted	
<b>UN Class</b>	Not restricted	
<b>Packing group</b>	Not restricted	
<b>Road</b>	UK	Not restricted
	ADR	Not restricted
<b>Sea</b>	IMO	Not restricted
<b>Air</b>	ICAO	Not restricted



## 15. Regulatory Information

<b>EC Supply labelling</b>	None required by relevant EU directives and UK regulations.		
<b>R Phrases</b>	None		
<b>S Phrases</b>	S22	Do not breathe dust.	
<b>UK Occupational exposure limits (Refer to HSE Guidance note EH40)</b>	<b>Mg/m<sup>3</sup></b>	<b>8 hr TWA</b>	<b>% in material</b>
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

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