

## Material Safety Data Sheet

BA30  
Alumina Hydrate

<b>Company Details</b>	Walker Ceramics 2/21 Research Drive, Croydon South, Victoria 3136, Australia Telephone (03) 8761 6322 Fax (03) 8761 6344 Email <a href="mailto:sales@walkerceramics.com.au">sales@walkerceramics.com.au</a> Website <a href="http://www.walkerceramics.com.au">www.walkerceramics.com.au</a> Date Of Issue: April 2014
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IDENTIFICATION	
Product Name	Alumina Hydrate
Other Names	None
Manufacturers Product Code	BA30
UN Number	None
Dangerous Goods Class & Subsidiary Code	None
Hazchem Code	None
Poisons Schedule Number	None
Use(s)	Used in ceramics and pottery.

PHYSICAL DESCRIPTION / PROPERTIES	
Appearance	Fine odourless white powder.
Boiling Point / Melting Point	>300°C
Vapour Pressure	Not applicable
Specific Gravity	2.5
Flashpoint	Not applicable
Flammability Limits	Not applicable
Solubility in Water	Insoluble in water but forms a gel on prolonged contact.
Other Properties	

INGREDIENTS		
Chemical Name	CAS Number	Proportion (%)
Alumina Hydrate (hydrated alumina, Al <sub>2</sub> O <sub>3</sub> .3H <sub>2</sub> O) as alumina hydrate	21645-51-2	>98

HEALTH HAZARD INFORMATION	
<b>Acute</b>	
Swallowed	This material is non-harmful if swallowed in small doses; may cause nausea, abdominal irritation, pain and vomiting with ingestion of large doses.
Eye	The dust may produce eye discomfort and abrasive eye inflammation.
Skin	This product is mildly discomforting and abrasive to the skin; may cause dryness. Open cuts, abraded or irritated skin should not be exposed to this material. It may accentuate any pre-existing skin condition.
Inhaled	This product as dust may be discomforting and harmful from repeated exposure over long periods.
<b>Chronic</b>	The principle route of exposure is via inhalation. Prolonged exposure to the skin may lead to drying, cracking, irritation or possible dermatitis.

FIRST AID	
Swallowed	DO NOT INDUCE VOMITING. If conscious, give water or milk to rinse out mouth and then drink. Provide liquid slowly but as much as the patient will drink. Transport to hospital without delay.
Eye	Immediately hold eyes open and wash continuously with running water for at least 15 minutes. Ensure irrigation includes under eyelids. TRAINED STAFF ONLY ARE TO ATTEMPT THE REMOVAL OF CONTACT LENSES. Seek medical attention without delay.
Skin	Wash affected areas thoroughly with soap and water if available. Seek medical attention in the event of irritation.
Inhaled	If fumes or combustion products are inhaled: Remove to fresh air. Encourage the patient to clear nasal passages by blowing nose. Rinse mouth with water and consider drinking to clear throat. Seek medical attention. If breathing has stopped, ensure the airway is clear and apply resuscitation. Transport to hospital or doctor.
<b>Advice To Doctor</b>	Manifestation of aluminium toxicity includes hypercalcaemia, anaemia, vitamin A refractory osteodystrophy and a progressive encephalopathy ( mixed dysarthria-apraxia of speech, asterix, tremulousness, myoclonus, dementia and focal seizures). Bone pain, pathological fractures and proximal myopathy can occur. Symptoms usually develop insidiously over months to years ( in chronic renal failure patients) unless dietary aluminium loads are excessive. Serum aluminium levels above 60 ug/ml indicate increased absorption. Potential toxicity occurs above 100 ug/ml and clinical symptoms are present when levels exceed 200 ug/ml. Deferoxamine has been used to treat dialysis encephalopathy and osteomalacia. CaNa <sub>2</sub> EDTA is less effective in chelating aluminium.

PRECAUTIONS FOR USE	
Exposure Standards	Alumina Hydrate TLV TWA 1.0 mg/m <sup>3</sup> as dust  ACGIH = American Conference of Governmental Industrial Hygienists. TWA = Time Weighted Average NOHSC =National Health & Safety Commission
Engineering Controls	Ensure workplace is well ventilated.
Personal Protection	Approved respirator to AS1715 to be worn, gloves, safety glasses and protective overalls. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.
Flammability	Not flammable under the conditions of use but the containers may burn.

SAFE HANDLING INFORMATION	
Storage & Transport	Store and transport in accordance with all regulations. Keep tightly closed in a dry, cool and well-ventilated place. Not subject to hazardous substances labelling.
Spills & Disposal	Dispose of in accordance with all Local, State and Federal regulations by incineration or disposal to landfill.
Fire / Explosion Hazard	Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use water, foam or dry extinguishing media. Use equipment/media appropriate to surrounding fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

OTHER INFORMATION	
<u>AUSTRALIAN POISONS INFORMATION CENTRE</u> 24 HOUR SERVICE 13 11 26 POLICE / FIRE / AMBULANCE 000	

CONTACT POINT	
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This MSDS summarises, at the date of issue, our best knowledge of the health & safety hazard information for this product, and in particular how to safely handle and use this product in the workplace. Since Walker Ceramics and its agents cannot anticipate or control the conditions under which this product may be used, each user must prior to usage, review this MSDS in the context of how the user intends to handle and use this product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact us.

Our responsibility for products sold, is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.