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MATERIAL SAFETY DATA SHEET

MSDS No.: AA0180
Revision Date: January 26, 2010
Approved by: James A. Bertsch

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Section 1 Chemical Product and Company Information

Product	**ALUMINUM HYDROXIDE**
Synonyms	Alumina Hydrate; Aluminum Oxide Trihydrate

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Hazards Identification

Emergency Overview

CAUTION!
MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION.
Avoid contact with skin, eyes and clothing. Use with adequate ventilation.
Store in a cool, dry place. Wash thoroughly after handling.
Target organs: None known.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Health	1
Fire	0
Reactivity	0
Contact	1

HMIS *

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units (ACGIH 2001)
Aluminum hydroxide, dried gel Contains: Aluminum oxide	21645-51-2 1344-28-1	100%	None established. TWA: 10 mg/m³

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Fire or excessive heat may produce hazardous decomposition products to be produced as dust or fume. Use water spray to keep fire-exposed containers cool.

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Flash Point: Not flammable.

Autoignition temperature: N/A

Explosion Limits: Lower: N/A **Upper:** N/A

NFPA

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None listed.

Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use f not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling & Storage

GENERAL STORAGE CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Solid.
Appearance: White to off-white powder.
Odor: No odor.
pH: N/A
Vapor pressure (mm Hg): N/A
Vapor Density (Air = 1): N/A
Evaporation rate (Butyl acetate = 1): N/A
Viscosity: N/A
Boiling point: N/A
Freezing / Melting point: Loses H_2O @ 300°C
Decomposition temperature: N/A
Solubility: Insoluble in water.
Specific gravity (H_2O = 1): 2.42 g/cm3
Percent volatile (%): N/A
Molecular formula: $Al(OH)_3$
Molecular weight: 78.00

Section 10 Stability & Reactivity

Chemical stability: Stable
Conditions to avoid: Water and moisture.
Hazardous polymerization: Will not occur.

Incompatibilities with other materials: Strong oxidizers, acids, bases. Reacts violently with chlorinated rubber when heated and can react dangerously with bismuth. Forms gel on prolonged contact with water.

Hazardous decomposition products: Aluminum oxides.

Section 11 Toxicological Information

Effects of overexposure: Material may be irritating to the mucous membranes and upper respiratory tract. Material should be treated as a nuisance dust. Contact with skin and eyes may cause irritation. Exercise appropriate procedures to minimize potential hazards.

RTECS #: BD0940000
Intraperitoneal-rat: Lowest published lethal dose: 150 mg/kg
Oral-child: Lowest published lethal dose: 122 gm/kg/4 day

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: N/A
Shipping name: **Not Regulated.**
Hazard class: N/A
Packing group: N/A
Exceptions: N/A

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (244-492-7), DSL-listed.

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards.