



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### ALUMINUM HYDROXIDE, DRIED GEL, POWDER

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: March 2008

Synonyms: Aluminum Hydrate, Aluminum Trihydrate, Hydrated Alumina

CAS #: 21645-51-2

DOT Hazard Class: Not Regulated

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Aluminum Hydroxide 76.5% min.

Dried Aluminum Hydroxide Gel is an amorphous form of aluminum hydroxide in which there is a partial substitution of carbonate for hydroxide. It contains the equivalent of not less than 76.5 percent of  $Al(OH)_3$ , and it may contain varying quantities of basic aluminum carbonate and bicarbonate.

#### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** A white, odorless, amorphous powder that may cause irritation to eyes and respiratory tract.

**POTENTIAL HEALTH EFFECTS:**

**Skin:** May cause skin irritation.

**Eyes:** May cause irritation, redness and pain.

**Inhalation:** May cause irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

**Ingestion:** Not expected to be a health hazard via ingestion.

**CARCINOGENICITY:** Not listed.

#### SECTION 4 - FIRST AID MEASURES

**Skin:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

#### **SECTION 4 - FIRST AID MEASURES Continued:**

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart. Get medical attention immediately.

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

**Ingestion:** Not expected to require first aid measures. If large amounts were swallowed give water to drink and get medical advice.

**On All Of The Above:** Consult a physician if symptoms persist.

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#### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Not Applicable

Flammable Limits: Non - flammable

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: Not considered to be an explosion hazard.

Auto Ignition Temperature: Not Applicable

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#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

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#### **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials such as acids, alkalis. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

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#### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin and eyes from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: No information found.

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H<sub>2</sub>O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: 300 °C (572 °F)

Evaporation Rate (Butyl Acetate=1): No information found.

Solubility in Water: Practically insoluble in water. Insoluble in alcohol. Soluble in hydrochloric acid, sulfuric acid, alkaline solutions and in strong acids in the presence of water.

pH: > 7 (Basic)

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**SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures. Aluminum hydroxide forms a gel on prolonged contact with water, absorbs acids and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce oxides of aluminum.

KEEP AWAY FROM: Moisture and incompatible materials.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Not Available

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**SECTION 12 - ECOLOGICAL INFORMATION**

Not Available

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

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D.O.T. SHIPPING NAME: Not Regulated

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Not listed

TSCA STATUS: This product is listed on the TSCA Inventory

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Not considered a hazard.

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**SECTION 16 - OTHER INFORMATION**

Reason for Issue: New Product

**This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.**