

**Section 1 Identification**

**Product identifiers**

Product name: Mia 67 Alumina Trihydrate

**Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Flame retardant filler

**Details of the supplier of the safety data sheet**

Freeman Manufacturing and Supply Company  
1101 Moore Road, Avon, OH 44011  
Phone (440) 934-1902  
FAX (440) 934-7200

HMIS	
H	1
F	0
R	0
PPE	
Sec. 8	

**24 Hour Emergency Phone Number: (800) 424-9300**

**Section 2 Hazards Identification**

**OSHA Classification**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label elements**

None

**Hazard Statements**

None

**Precautionary Statements**

**Prevention**

Employ good industrial hygiene practice  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust  
Wear protective gloves/protective clothing/eye protection/face protection

**Response**

If on skin: Wash with plenty of soap and water.

**Storage**

Store away from incompatible materials

**Disposal**

Dispose of contents and container to in accordance with local regulations.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None known

**Section 3 Composition/Information on Ingredients**

Ingredient Name	CAS Number	Weight (%)
Aluminium Hydroxide	21645-51-2	100

**Section 4 First Aid Measures**

**Description of first aid measures**

**General advice**

When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Section 4 First Aid Measures**

**If inhaled**

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**In case of skin contact**

Wash skin thoroughly with soap and plenty of water.

**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**If swallowed**

Rinse mouth thoroughly with water.

**Most important symptoms and effects, both acute and delayed**

Signs and symptoms may include coughing, gasping, choking and difficulty breathing.

**Indication of any immediate medical attention and special treatment needed**

Treatment should be symptomatic and supportive.

**Section 5 Fire Fighting Measures**

**Extinguishing media**

Suitable extinguishing media: Carbon dioxide, foam, dry chemical or water fog.

Unsuitable extinguishing media: None known

**Special hazards arising from the substance or mixture**

None known

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protection recommended in Section 8.

Avoid dust formation. Keep unauthorized personnel away.

**Environmental precautions**

Avoid runoff to waterways and sewers

**Methods and materials for containment and cleaning up**

Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a

vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container

**Section 7 Handling and Storage**

**Precautions for safe handling**

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation.

Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

Store at ambient temperatures in tightly closed containers. Keep dry.

Incompatible with strong acids.

Mia 67 Alumina Trihydrate

**Section 8 Exposure Controls/Personal Protection**

**Components with workplace control parameters**

Ingredient	OSHA	ACGIH
	TWA	TLV/TWA
Aluminum Hydroxide	15 mg/m <sup>3</sup> Total Dust 5 mg/m <sup>3</sup> Respirable Dust	8 hour: 1 mg/m <sup>3</sup> Respirable Fraction

**Appropriate engineering controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations below the recommended exposure limits (10 to 15 air changes per hour).

**Personal protective equipment**

**Eye/face protection**

Wear safety glasses equipped with side shields or goggles.

**Skin protection**

**Hand/body protection**

Wear suitable protective clothing. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Respiratory Protection**

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**Safety Stations**

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**General Hygienic Practices**

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling and before eating, drinking, or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Solid powder
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No data available
<b>pH</b>	8.4 - 10.2 in 5% water suspension
<b>Melting point</b>	ca 300°C (572°F)
<b>Initial boiling point</b>	5,396°F (2,980°C)
<b>Flash Point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability</b>	Not applicable
<b>Vapor Pressure (mmHg)</b>	Not applicable
<b>Vapor density (air=1)</b>	Not applicable
<b>Relative density</b>	2.4 g/cm <sup>3</sup> , 20°C
<b>Water Solubility</b>	Insoluble
<b>Coefficient: n-octanol/ water</b>	No data available
<b>Auto-ignition temperature</b>	Not applicable
<b>Explosive properties</b>	None

**Section 10 Stability and Reactivity**

**Reactivity**

None

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None known

**Conditions to avoid**

Incompatible materials

**Incompatible materials**

Strong acids.

**Hazardous decomposition products**

None known

**Section 11 Toxicological Information**

**General Information**

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

**Information on Likely Routes of Exposure**

**Inhalation**

Do not breathe dust. Inhalation of dust in high concentration may cause irritation of respiratory system

**Skin**

Contact with dust can cause mechanical irritation or drying of the skin

**Eyes**

Dust contact with the eyes can lead to mechanical irritation

**Ingestion**

Ingestion is not a likely route of exposure

**Aspiration hazard**

Not an expected route of exposure.

**Information on toxicological effects**

**(Aluminum Hydroxide)**

**Oral LD50**

> 2000 mg/kg Rat

**Inhalation LC50**

Rat > 2.3 mg/l (Al<sub>2</sub>O<sub>3</sub>) Aerosol Maximum attainable concentration

**Acute toxicity**

Based on available data, classification criteria are not met

**Chronic toxicity**

Based on available data, classification criteria are not met

**Chronic effects**

Based on available data, classification criteria are not met

**Skin corrosion/irritation**

Non-irritant (Rabbit)

**Serious eye damage/eye irritation**

Non-irritant (Rabbit)

**Respiratory sensitization**

No data available

**Skin sensitization**

Based on available data, classification criteria are not met  
 Not a skin sensitizer (Guinea pig)

**Mutagenicity**

in vitro Not genotoxic in bacteria and mammalian cell systems.

in vivo Mutagenicity (micronucleus test) Rat Negative (weight of evidence approach)

**Germ cell mutagenicity**

No data available

**Carcinogenicity (IARC)**

Not listed

**Reproductive toxicity**

Based on available data, classification criteria are not met

**Specific target organ toxicity**

- single exposure

Not classified

- repeated exposure

No data available

**Mia 67 Alumina Trihydrate**

**Section 12 Ecological Information**

<b>Ecotoxicity</b>	Not considered to be harmful to aquatic life
<b>Persistence and degradability</b>	The methods for determining biodegradability are not applicable to inorganic substances.
<b>Bioaccumulative potential</b>	Not likely to bioaccumulate
<b>Mobility in soil</b>	No data available
<b>Results of PBT &amp; vPvB assessment</b>	This substance does not meet the criteria for classification as PBT or vPvB.

**Section 13 Disposal Considerations**

<b>Waste treatment methods</b>	
<b>Disposal Methods</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Waste codes</b>	Waste codes should be assigned by the user based on the application for which the product was used
<b>Aluminum Hydroxide</b>	
<b>European Waste Catalog</b>	060299
<b>WKG Classification (VwVwS)</b>	5220 WKG: nwg

**Section 14 Transport Information**

<b>Mode of Transportation</b>	
<b>DOT</b>	Not Regulated
<b>TDG - Canada</b>	Not regulated
<b>ADR</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADN</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>ICAO</b>	Not regulated

**Section 15 Regulatory Information**

**Global Inventories**

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51-2	244-492-7	01-211952 9246-39-0 016	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	Y

Legend - Y: Complies

**US Federal Regulations**

**CERCLA Reportable Quantity** This material does not contain any components with a CERCLA RQ.

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section 15 Regulatory Information continued**

**SARA 304:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312:** Not listed

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act:** Not regulated

**Clean Water Act:** Not regulated

**US State Regulations**

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

**Canada**

**WHMIS:** This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

**Section 16 Other Information**

**Disclaimer**

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

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