

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 ³ Total Dust 5 mg/m ³ Respirable Dust	8 hour: 1 mg/m ³ 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

Appearance	Solid powder
Odor	Odorless
Odor threshold	No data available
pH	8.4 - 10.2 in 5% water suspension
Melting point	ca 300°C (572°F)
Initial boiling point	5,396°F (2,980°C)
Flash Point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/lower flammability	Not applicable
Vapor Pressure (mmHg)	Not applicable
Vapor density (air=1)	Not applicable
Relative density	2.4 g/cm ³ , 20°C
Water Solubility	Insoluble
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	Not applicable
Explosive properties	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 (Al₂O₃) 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

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Section 12 Ecological Information

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

Section 13 Disposal Considerations

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

Section 14 Transport Information

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

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