

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Mia 63 Fumed Silica

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

Identified uses: N/A

1.3 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

1.4 Emergency telephone number
 (800) 424-9300

Section 2 Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

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

None.

Section 3 Composition/Information on Ingredients

3.1 Substance

Ingredient Name	CAS Number
Silicon Dioxide, chemically prepared	112945-52-5

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

Section 4 First Aid Measures

4.1 Description of first aid measures

If inhaled

In case product dust is released: Possible discomfort: cough, sneezing Move to fresh air.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention. No information available.

If swallowed

Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, CO2, dry powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use full-force water jet in order to avoid dispersal and spread of the fire.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

5.4 Further information

No data available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective equipment, see section 8.

6.2 Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel.

Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection. Use with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Take precautionary measures against static discharges. Keep containers tightly sealed and store in a dry, cool place

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

Ingredient	OSHA	
	PEL	STEL
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	6 mg/m ³	none estab.

8.2 Exposure controls

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Section 8 Exposure Controls/Personal Protection continued

8.3 Personal protective equipment

Eye/face protection: Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

8.4 Skin protection

Hand Protection: Use impermeable gloves.

Body Protection: Wear appropriate clothes if there is potential for skin irritation from dust.

8.5 Respiratory Protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

8.6 Safety Stations

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

8.7 General Hygienic Practices

Avoid breathing dust. 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

9.1 Information on basic physical and chemical properties

Appearance	Solid white powder
Odor	None
Odor Threshold	No data available
pH	3.7 - 4.5 (40 g/l, 20 °C) Suspension
Melting Point	No data available
VOC Content	0
Initial boiling point & boiling range	No data available
Flash Point(COC)	Not relevant
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure	No data available
Vapor density	No data available
Density	Approximate 2.2 g/cm ³ (68 °F/20 °C)
Water Solubility	>1mg/L
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Decomposition Temperature	>3,632°F/>2,000°C
Viscosity	No data available
Explosive Properties	None
Oxidizing Properties	None
% Volatile	0

Section 10 Stability and Reactivity

- 10.1 Reactivity:** No dangerous reaction known under conditions of normal use.
- 10.2 Chemical stability:** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions:** No hazardous reactions are known if properly handled and stored.
- 10.4 Conditions to avoid:** No dangerous reaction known under conditions of normal use. Operations that create dust.
- 10.5 Incompatible materials:** None.
- 10.6 Hazardous decomposition products:** No data available.

Section 11 Toxicological Information

11.1 Information on toxicological effects

- Oral:** LD 50 (Rat): > 3,300 mg/kg Not toxic after single exposure; No deaths observed.
 LD 50 (Rat): > 5,000 mg/kg (OECD 401) comparable product, Based on available data, the classification criteria are not met.
- Inhalation:** LC 0 (Rat, 4 h): 0.139 mg/l (maximum concentration attainable in experiments), No deaths observed., Based on available data, the classification criteria are not met.
- Dermal:** LD 50 (Rabbit): > 5,000 mg/kg comparable product, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation:** Analogous OECD method (Rabbit): Not irritating; Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation:** Rabbit: Not irritating Based on available data, the classification criteria are not met.
- Respiratory or skin sensitization:** No data available
- Germ cell mutagenicity:** No evidence of mutagenic effects
- Carcinogenicity:** Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA. No evidence that cancer may be caused.
- Reproductive toxicity:** No evidence of reproduction toxic properties
- Specific target organ toxicity - single exposure:** no evidence for hazardous properties
- Specific target organ toxicity - repeated exposure:** no evidence for hazardous properties
- Aspiration hazard:** Not classified

Section 12 Ecological Information

12.1 Toxicity

LC 50 (Brachydanio rerio (zebrafish), 96 h): > 10,000 mg/l The reported toxic effects relate to the nominal concentration. EC 50 (Daphnia magna, 24 h): > 1,000 mg/l The reported toxic effects relate to the nominal concentration.

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Not to be expected.

12.4 Mobility in soil

No remarkable mobility in soil is to be expected.

12.5 Results of PBT & vPvB assessment

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

Section 13 Disposal Considerations

- 13.1 Disposal:** Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

Section 14 Transport Information

49 CFR/IATA/IMDG Not regulated as a dangerous good

Section 15 Regulatory Information

15.1 U.S. Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

15.2 U.S. State Regulations

California Proposition 65: No ingredient requiring a warning under CA Prop 65.

Section 16 Other Information

16.1 Disclaimer

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