

Section 1 Identification

Product name: Mia 84 Graphite Powder
Recommended use: Epoxy, urethane or polyester resin 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	2
F	1
R	0
PPE	
Sec. 8	

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

Section 2 Hazards Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation, Category 2
 Carcinogenicity, Category 1A
 Specific target organ toxicity (single exposure), Category 3, Target Organs - Respiratory system
 Specific target organ toxicity - (repeated exposure), Category 2, Target Organs - Lungs

Signal Word

Danger

Hazard Statements

Causes serious eye irritation
 May cause cancer by inhalation
 May cause respiratory irritation
 May cause damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Wear eye/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Eyes

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

If eye irritation persists: Get medical advice/attention

Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known.

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Section 3 Composition/Information on Ingredients

Component	CAS Number	Weight %
Graphite	7782-42-5	> 99
Quartz	14808-60-7	< 1

Section 4 First Aid Measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

Ingestion

Do not induce vomiting. Get medical attention if symptoms occur.

Most important symptoms/effects

No information available.

Notes to Physician

Treat symptomatically

Section 5 Fire-Fighting Measures

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters

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

Section 6 Accidental Release Measures

Personal Precautions

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Avoid contact with skin, eyes and clothing.

Environmental Precautions

Avoid release to the environment.

Methods for Containment and Clean Up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

Section 7 Handling and Storage

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Do not breathe dust. Avoid contact with skin, eyes and clothing.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

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Section 8 Exposure Controls/Personal Protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Graphite	TWA: 2 mg/m ³	(Vacated) TWA: 2.5 mg/m ³ (Vacated) TWA: 10 mg/m ³ (Vacated) TWA: 5 mg/m ³ TWA: 15 mg/m ³ TWA: 5 mg/m ³	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³
Quartz	TWA: 0.025 mg/m ³	(Vacated) TWA: 0.1 mg/m ³	IDLH: 50 mg/m ³ TWA: 0.05 mg/m ³

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Section 9 Physical and Chemical Properties

Physical State	Solid
Appearance	Black Powder
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	3652.2 - 3697.2 °C / 6606 - 6687 °F
Boiling Point/Range	4200 °C / 7592 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability or explosive limits, Upper	No data available
Flammability or explosive limits, Lower	No data available
Vapor Pressure	Negligible
Vapor Density	No information available
Specific Gravity	2.09 - 2.25
Weight per Gallon	5.0 lb.
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	730 °C / 1346 °F
Decomposition Temperature	No information available

Section 10 Stability and Reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Avoid dust formation. Excess heat.
Incompatible Materials	No information available
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

Section 11 Toxicological Information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information Quartz, LD50 Oral = 500 mg/kg (Rat)

Toxicologically Synergistic No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and respiratory system

Sensitization No information available

Carcinogenicity

Component	CAS Number	IARC	NTP	ACGIH
Graphite	7782-42-5	Not Listed	Not Listed	Not Listed
Quartz	14808-60-7	Group 1	Known	A2

IARC (International Agency for Research on Cancer) *Group 1 - Carcinogenic to Humans*
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

NTP (National Toxicity Program) *Known - Known Carcinogen*
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH (American Conference of Governmental Industrial Hygienists) *A1 - Known Human Carcinogen*
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - Lungs

repeated exposure

Aspiration hazard No information available

Symptoms / effects, No information available

both acute and delayed

Endocrine Disruptor No information available

Information

Other Adverse Effects The toxicological properties have not been fully investigated.

Section 12 Ecological Information

Ecotoxicity Do not empty into drains

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

Section 13 Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 Transport Information

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

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Section 15 Regulatory Information

International Inventories

Component	TSCA	DSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Graphite	Listed	Listed	231-955-3	Listed	-	Listed	Listed	Listed
Quartz	Listed	Listed	238-878-4	Listed	Listed	Listed	Listed	Listed

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	
Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No
Clean Water Act	Not applicable
Clean Air Act	Not applicable
OSHA	Not applicable
CERCLA	Not applicable

California Proposition 65

 **WARNING:** This product can expose you to quartz, Which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Graphite	X	X	X	-	X
Quartz	X	X	X	X	X

Section 16 Other Information

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