Mia 63 Fumed Silica
Date of Preparation: December 1, 2015

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
Emergency Phone (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

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide, chemically prepared</td>
<td>112945-52-5</td>
</tr>
</tbody>
</table>

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
Move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with plenty of water for at least 15 minutes. Get medical attention.

If swallowed
Rinse mouth and drink plenty of water. Get medical attention if symptoms appear.

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

5.2 Special hazards arising from the substance or mixture
   Nature of decomposition products not known.

5.3 Advice for firefighters
   Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
   No data available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
   Avoid dust formation.
   For personal protection see section 8.

6.2 Environmental precautions
   Do not let product enter drains, lakes, streams, ponds, groundwater, or soil.

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
   Avoid creating dust. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities
   Store at ambient temperatures in closed containers. Do not heat this material above the flash point. Keep away from flame and open electrical coils. No chemical incompatibilities.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters
   Components with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PEL</td>
<td>STEL</td>
</tr>
<tr>
<td>Total Dust (nuisance)</td>
<td>15 mg/m3</td>
<td>none estab.</td>
</tr>
<tr>
<td>Respirable Dust</td>
<td>5 mg/m3</td>
<td>none estab.</td>
</tr>
</tbody>
</table>

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 (see below). An eye wash station and safety shower should be located near the workstation.
Section 8 Exposure Controls/Personal Protection cont.

8.3 Personal protective equipment

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

8.4 Skin protection

Hand Protection
 With product at ambient temperatures, use disposable nitrile, neoprene or butyl rubber gloves with repeated or prolonged use.

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

8.5 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.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid white powder</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC Content</td>
<td>0</td>
</tr>
<tr>
<td>Initial boiling point &amp; boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point(COC)</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density (g/cc)</td>
<td>2.2+/- .05 (tamped)</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Coefficient: n-octanol/ water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>None</td>
</tr>
<tr>
<td>% Volatile</td>
<td>0</td>
</tr>
</tbody>
</table>
Section 10 Stability and Reactivity

10.1 Reactivity
None.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
None.

10.4 Conditions to avoid
Heat, open flames, and conditions 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
Acute toxicity No data available
Inhalation No data available
Dermal No data available
Skin corrosion/irritation No data available
Serious eye damage/eye irritation No data available
Respiratory or skin sensitization No data available
Germ cell mutagenicity No data available
Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

Reproductive toxicity No data available
Specific target organ toxicity
- single exposure No data available
Specific target organ toxicity
- repeated exposure No data available
Aspiration hazard No data available

Section 12 Ecological Information

12.1 Toxicity No data available
12.2 Persistence and degradability No data available
12.3 Bioaccumulative potential No data available
12.4 Mobility in soil No data available
12.5 Results of PBT & vPvB assessment No data available
### 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

<table>
<thead>
<tr>
<th>DOT:</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG:</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IATA:</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

### Section 15 Regulatory Information

#### 15.1 US Federal Regulations
- RCRA Hazardous Waste Number (40 CFR 261.33): Not listed
- RCRA Hazardous Waste Classification (40 CFR 261): Not classified
- CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001
- SARA 311/312 Codes: No hazard categories identified
- SARA Toxic Chemical (40 CFR 372.65): No components were identified
- TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

#### 15.2 State Regulations
- California Proposition 65: Not listed

### Section 16 Other Information

#### 16.1 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.