SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: CAB-O-SIL® Untreated Fumed Silica

Product code: M5

Synonyms: Silicon Dioxide, Synthetic Amorphous Silica, Pyrogenic (Fumed) Amorphous Silica

This SDS is valid for the following grades: CAB-O-SIL® Fumed Silica: L-50, L-60, L-90, LM-130, LM-150, M-5, M-5K, PTG, MS-55, H-5, H-7D, HS-5, EH-5, LM-130D, LM-150D, M-7D, MS-75D, S-17D, HP-60, M-8D, EL-1000, EL-2000, MS-35, H300, EL-90, EL-100, ELM-150, HK-7KD, HK-9D, HK-9KD, ENERSIL™ 2010, 2020, 2030.

Recommended use: Various, Rheological control, Flow agent, Anti-caking agent, Anti-blocking agent, Anti-settling agent, Spray aid, Thickening agent, Carrier, Viscosity control agent, Glossing or matting agent, Chemical intermediate, Stabilization agent, Filler, Reinforcing agent in: Coatings, Adhesives and/or sealants, Silicone elastomer, Rubber products, Suspension, Dispersion, Batteries, Cosmetics, Inks and toners, Paints, Hygiene and sanitary products, Other

Restrictions on use: Not Applicable.

Supplier:  

Cabot Corporation  
4400 North Point Parkway  
Suite 200  
Alpharetta, Georgia 30022  
United States  
Tel: +1 678 297 1300

Emergency Telephone Number:  

24H/7d service  
Canada: CANUTEC 1-613-996-6666  
US: CHEMTREC 1-800-424-9300 or 1-703-527-3887  
Germany: CHEMTREC 0800-181-7059  
UK: CHEMTREC: (+44)-870-8200418  
CHEMTREC China: 4001-204937  
International CHEMTREC: +1 703-741-5970 or +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status: This chemical is not considered hazardous by the United States 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
**Label Elements**

**Pictogram:** None  
**Signal Word:** None  
**Hazard statements:** None  
**Precautionary Statements:** None

**Hazards not otherwise classified (HNOC)**

None.

**Potential health effects**

**Principle Routes of Exposure:** Inhalation, Skin Contact, Eye contact  
**Eye Contact:** May cause mechanical irritation. Avoid contact with eyes.  
**Skin Contact:** May cause mechanical irritation and skin drying. Avoid contact with skin. No cases of sensitization in humans have been reported.  
**Inhalation:** Dust may be irritating to respiratory tract. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. See also Section 8.  
**Ingestion:** Adverse health effects are not expected. See Section 11.

**Carcinogenicity:** Does not contain any substances greater than 0.1% listed by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference for Governmental Industrial Hygienists) or EU (European Union). See also Section 11.

**Target Organ Effects:** Lungs, See Section 11

**Medical Conditions Aggravated by Exposure:** Asthma, Respiratory disorder

**Potential Environmental Effects:** None known. See Section 12.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** Silicon Dioxide, Synthetic Amorphous Silica, Pyrogenic (Fumed) Amorphous Silica.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic Amorphous, Pyrogenic Silica</td>
<td>112945-52-5</td>
<td>&gt; 99.9</td>
<td>-</td>
</tr>
</tbody>
</table>

*Regulatory information is found under the general silica: CAS RN 7631-86-9, EINECS RN 231-545-4  
The hyphen (-) means "not applicable"
4. FIRST AID MEASURES

FIRST AID MEASURES

Skin Contact
Wash thoroughly with soap and water. Seek medical attention if symptoms develop.

Eye Contact
Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if symptoms develop.

Inhalation
If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

Ingestion
Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms:
The most important known symptoms and effects are described in Section 2 and/or in Section 11.

Indication of any immediate medical attention and special treatment needed

Note to physicians:
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Silica is non-combustible, therefore no extinguishing media needs to be identified.

Unsuitable Extinguishing Media:
None.

Specific hazards arising from the chemical:
None.

Hazardous combustion products:
None.

Protective equipment and precautions for firefighters:
Wear suitable protective equipment. In the event of fire, wear self-contained breathing apparatus.

Risk of Dust Explosion:
Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions:
Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. See also Section 8.

For emergency responders:
Use personal protection recommended in Section 8.

Environmental Precautions:

Environmental Precautions:
Contain spilled product on land, if possible. Local authorities should be advised if significant spillages cannot be contained.
Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Clean up promptly by vacuum. Use of a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by using a brush or compressed air. Pick up and transfer to properly labelled containers. See Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air.

Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry and well-ventilated place. Do not store together with volatile chemicals as they may be adsorbed onto product. Store at ambient conditions. Keep in properly labeled containers.

Incompatible materials: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines: The table below is a summary. Please see the specific legislation for complete information.

Amorphous Silica, The regulatory exposure limits are found under the general silica, CAS RN 7631-86-9:

<table>
<thead>
<tr>
<th>Country</th>
<th>Limit</th>
<th>Unit</th>
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<tbody>
<tr>
<td>Australia</td>
<td>2 mg/m³</td>
<td>TWA, Respirable</td>
</tr>
<tr>
<td>Austria MAK</td>
<td>4 mg/m³</td>
<td>TWA, Inhalable fraction</td>
</tr>
<tr>
<td>Finland</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Germany TRGS 900</td>
<td>4 mg/m³</td>
<td>TWA, Inhalable fraction</td>
</tr>
<tr>
<td>India</td>
<td>10 mg/m³</td>
<td>TWA</td>
</tr>
<tr>
<td>Ireland</td>
<td>2.4 mg/m³</td>
<td>TWA, Respirable dust</td>
</tr>
<tr>
<td>Norway</td>
<td>1.5 mg/m³</td>
<td>TWA, Respirable dust</td>
</tr>
<tr>
<td>Switzerland</td>
<td>4 mg/m³</td>
<td>TWA</td>
</tr>
<tr>
<td>UK WEL</td>
<td>6 mg/m³</td>
<td>TWA, Inhalable fraction</td>
</tr>
<tr>
<td></td>
<td>2.4 mg/m³</td>
<td>TWA, Respirable fraction</td>
</tr>
<tr>
<td>US OSHA PEL</td>
<td>6 mg/m³ (54 FR2701)</td>
<td></td>
</tr>
</tbody>
</table>
Dust, or Particulates Not Otherwise Specified:

<table>
<thead>
<tr>
<th>Country</th>
<th>Limit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>10 mg/m³, TWA</td>
<td>Inhalable</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³ TWA</td>
<td>Respirable</td>
</tr>
<tr>
<td>China</td>
<td>8 mg/m³, TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 mg/m³, STEL</td>
<td></td>
</tr>
<tr>
<td>France</td>
<td>10 mg/m³, TWA</td>
<td>Inhalable dust</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³, TWA</td>
<td>Respirable dust</td>
</tr>
<tr>
<td>Italy</td>
<td>10 mg/m³, TWA</td>
<td>Inhalable</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³, TWA</td>
<td>Respirable</td>
</tr>
<tr>
<td>Malaysia</td>
<td>10 mg/m³, TWA</td>
<td>Inhalable</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³, TWA</td>
<td>Respirable</td>
</tr>
<tr>
<td>Spain</td>
<td>10 mg/m³, VLA</td>
<td>Inhalable</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³, VLA</td>
<td>Respirable</td>
</tr>
<tr>
<td>US ACGIH - PNOS</td>
<td>10 mg/m³, TWA</td>
<td>Inhalable</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³, TWA</td>
<td>Respirable</td>
</tr>
<tr>
<td>US OSHA - PEL</td>
<td>15 mg/m³, TWA</td>
<td>Total dust</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³, TWA</td>
<td>Respirable</td>
</tr>
</tbody>
</table>

NOTE:

In its facilities globally, Cabot Corporation manages silica to the Germany TRGS 900 occupational exposure limit of 4 mg/m³, TWA, Inhalable fraction.

MAK: Maximale Arbeitsplatzkonzentration (Maximum Workplace Concentration)
PEL: Permissible Exposure Limit
PNOS: Particulate Not Otherwise Specified
STEL: Short Term Exposure Limit
TRGS: Technische Regeln für Gefahrstoffe (Technical Rule for Hazardous Materials)
TWA: Time Weighted Average
US ACGIH: United States American Conference of Governmental Industrial Hygienists
US OSHA: United States Occupational Safety and Health Administration
VLA: Valore Límite Ambientales (Environmental Limit Value)
WEL: Workplace Exposure Limit

Engineering Controls: Ensure adequate ventilation to maintain exposures below occupational limits. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment [PPE]

Respiratory Protection: Approved respirator may be necessary if local exhaust ventilation is not adequate.

Hand Protection: Wear protective gloves to prevent skin drying. Use protective barrier cream before handling the product. Wash hands and other exposed skin with mild soap and water.

Eye/face Protection: Wear eye/face protection. Wear safety glasses with side shields (or goggles).
Skin and Body Protection: Wear suitable protective clothing. Wash clothing daily. Work clothing should not be allowed out of the workplace.

Other: Handle in accordance with good industrial hygiene and safety practice. Emergency eyewash and safety shower should be located nearby.

Environmental exposure controls: In accordance with all local legislation and permit requirements as applicable for dusts.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Powder</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>3.6-4.5</td>
<td>In-house testing</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>1700 °C</td>
<td>NIOSH Pocket Guide to Chemical Hazards</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>2230 °C</td>
<td>NIOSH Pocket Guide to Chemical Hazards</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Density</td>
<td>2.2 g/cm³</td>
<td>@ 20 °C</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>30 - 150 kg/m³</td>
<td>DIN/ISO 787:11</td>
</tr>
<tr>
<td>Specific Gravity at 20°C</td>
<td>2.2</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Slightly soluble</td>
<td>According to OECD 105</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water):</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td></td>
<td>No oxidizing properties</td>
</tr>
<tr>
<td>Softening point</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>VOC content (%)</td>
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<td>Not Applicable</td>
</tr>
<tr>
<td>% Volatile (by Volume)</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>% Volatile (by Weight)</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Surface Tension</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td></td>
<td>Non-explosible</td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td>Not combustible</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>Not flammable. Product resists ignition and does not promote flame spread</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Explosion Limits in Air - Upper (g/m³):</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Explosion Limits in Air - Lower (g/m³):</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Minimum Ignition Temperature</td>
<td></td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity: Not reactive. Substance is an inert inorganic solid.

Stability: Stable under recommended handling and storage conditions.

Possibility of hazardous reactions: None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid: None known.

Incompatible materials: None known.

Explosion data Will not cause dust explosion. See also Section 9.

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: This material is an inorganic dust and will not create nor support conditions that would result in a dust explosion or fire. Take precautionary measures against static discharges. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations.

Hazardous decomposition products: None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50: LD50/oral/rat = > 5000 mg/kg. No deaths occurred and no signs of toxicity were seen during the observation periods after single oral administration of silica(OECD 401).

Inhalation LC50: Due to the product’s physical characteristics, no suitable testing procedure is available.

Dermal LD50: LD50/dermal/rabbit = > 2000 mg/kg. Very slight transient erythema in one animal. No signs of systemic or organ toxicity (OECD 402).

Skin corrosion/irritation: Primary irritation index = 0/8 @ 24 hr. Not classified as an irritant (OECD 404)

Serious eye damage/eye irritation: Draize score 1.0/110 @ 24 hr. Not classified as an irritant in rabbit studies (OECD 405). High dust concentrations may cause mechanical irritation.
Sensitization: No experimental animal data are available. No cases of sensitization in humans have been reported.

Mutagenicity: Not mutagenic in Ames test. Negative in the unscheduled DNA synthesis assay. Negative in the chromosome aberration test in Chinese hamster ovary (CHO) cells.

Carcinogenicity: No evidence of carcinogenicity was observed in multiple animal species following repeated oral or inhalation exposure to amorphous silica. Similarly, epidemiology studies show no evidence of carcinogenicity in workers who manufacture amorphous silica.

Reproductive Toxicity: No effects on reproductive organs or fetal development have been reported in animal toxicity studies.

STOT - single exposure: Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.

STOT - repeated exposure: Repeated dose toxicity: oral (rat), 2 weeks to 6 months, no significant treatment-related adverse effects at doses of up to 8% silica in the diet.
Repeated dose toxicity: inhalation (rat), 13 weeks, Lowest Observed Effect Level (LOEL) = 1.3 mg/m³ based on mild reversible effects in the lungs.
Repeated dose toxicity: inhalation (rat), 90 days, LOEL = 1 mg/m³ based on reversible effects in the lungs and effects in the nasal cavity.

Based on available data, a STOT-RE classification is not warranted.

Aspiration Hazard: Based on industrial experience and available data, no aspiration hazard is expected.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Fish (Brachydanio rerio) LC50 (96 h): > 10,000 mg/l; (Method: OECD 203)
No acute toxicity to Daphnia with EL and EL₅₀ ranging from >1000 to 10,000 mg/L (OECD 202)

ENVIRONMENTAL FATE
Persistence and degradability: The methods for determining biodegradability are not applicable to inorganic substances

Bioaccumulation: Not expected due to physicochemical properties of the substance.

Mobility: Not expected to migrate.

Distribution to Environmental Compartments: No information available.

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS
Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 3 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

RCRA: Unused product is not a hazardous waste under U.S. RCRA, 40 CFR 261.

Disposal considerations: Dispose in accordance with applicable legislations.

### 14. TRANSPORT INFORMATION

#### DOT

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>UN/ID no</td>
<td></td>
</tr>
<tr>
<td>Proper Shipping Name</td>
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</tr>
<tr>
<td>Hazard Class</td>
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<tr>
<td>Packing group</td>
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</table>

#### ICAO (air)

<table>
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#### IATA

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#### IMDG

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<td>Packing group</td>
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#### RID

<table>
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<tr>
<td>Hazard Class</td>
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<td>Packing group</td>
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#### ADR

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<tr>
<td>Proper Shipping Name</td>
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</table>
Product code: M5  Product name: CAB-O-SIL® Untreated Fumed Silica  Revision date: 15-May-2015

Hazard Class: Not regulated  Packing group: Not regulated

15. REGULATORY INFORMATION

*Regulatory information is found under the general silica: CAS RN 7631-86-9, EINECS RN 231-545-4.

Hazard Classification

Mexico - NOM-018-STPS-2000: Not hazardous
Canada - WHMIS Classification (CPR, SOR/88-66): Not controlled
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the M/SDS contains all the information required by the Controlled Products Regulations.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>WHMIS - Ingredient Disclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic Amorphous, Pyrogenic Silica</td>
<td>General silica CAS RN 7631-86-9, is listed</td>
</tr>
</tbody>
</table>

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory: Complies
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List: Complies
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances: Complies
ENCS - Japan Existing and New Chemical Substances: Complies
IECSC - China Inventory of Existing Chemical Substances: Complies
KECL - Korean Existing and Evaluated Chemical Substances: Complies
PICCS - Philippines Inventory of Chemicals and Chemical Substances: Complies
AICS - Australian Inventory of Chemical Substances: Complies
NZIoC - New Zealand Inventory of Chemicals: Complies
TCSI - Taiwan Chemical Substance Inventory: Complies

US Federal Regulations

TSCA Section 12(b) Export Regulations:
This product does not contain any components that are subject to TSCA 12(b) Export Notification

SARA Section 302 (40 CFR 355) Extremely Hazardous Substances:
No components are listed as extremely hazardous substances under SARA Section 302.

SARA 311/312 Hazard Categories

Acute Health Hazard: NO
Chronic Health Hazard: NO
Fire hazard: NO
Sudden release of pressure hazard: NO
Reactive Hazard: NO

SARA Section 313 (40 CFR 372) Toxics Release Inventory
Does not contain any of the substances identified under Section 313 as toxic chemicals in excess of the de minimis concentrations necessary to be subject to the supplier notification requirements.
Clean Air Act Amendments of 1990
(CAA, Section 112, 40 CFR 82):
This product does not contain any components listed as a Hazardous Air Pollutant, Flammable Substance, Toxic Substance, or Class 1 or 2 Ozone Depletor

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

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

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Louisiana:</th>
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<td>Silica 7631-86-9</td>
<td>X</td>
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</table>

Pharmaceutical Use:
Not recommended

References:

Contacts:

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16. OTHER INFORMATION
Product code: M5  
Product name: CAB-O-SIL® Untreated Fumed Silica  
Revision date: 15-May-2015

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Prepared by: Cabot Corporation - Safety, Health and Environmental Affairs  
Revision date: 15-May-2015

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End of Safety Data Sheet