

# SAFETY DATA SHEET

Creation Date 15-December-2011 Revision Date 26-December-2021 Revision Number 6

1. Identification

Product Name CAB-O-SIL® M5

Cat No.: AC403730000; AC403731500

**CAS-No** 7631-86-9

Synonyms Silicon dioxide, Synthetic Amorphous Silica, Pyrogenic (Fumed) Amorphous Silica

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

 Importer/Distributor
 Manufacturer

 Fisher Scientific
 Acros Organics
 Fisher Scientific Company

Fisher Scientific Acros Organics
112 Colonnade Road, One Reagent Lane
Ottawa, ON K2E 7L6, Fair Lawn, NJ 07410

One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Canada

Tel: 1-800-234-7437

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification Not classified under the Hazardous Products Regulations (SOR/2015-17)

Based on available data, the classification criteria are not met

Label Elements

None required

**Hazard Statements** 

**Precautionary Statements** 

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|------------|---------------|----------------|-----------------------------|
| ~          | 1 AMPACITION  | Information on | Indradiante                 |
| <b>J</b> . | COLLIDOSITION | nnonnation on  | III di Calcillo             |

| Component | CAS-No | Weight %  |
|-----------|--------|-----------|
| Component | OAO NO | Weight /0 |

| Silica, amorphous | 7631-86-9 | 100 |
|-------------------|-----------|-----|

### 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Not applicable

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

Upper No data available
Lower No data available
Oxidizing Properties Not oxidising

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Non-combustible.

### **Hazardous Combustion Products**

Silicon dioxide.

#### **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.

NFPA

Health Flammability Instability Physical hazards
2 0 0 N/A

### 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional Ecological

Information.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Up** 

## 7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid

contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

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

Materials. Strong oxidizing agents. Strong acids. Strong bases.

## 8. Exposure controls / personal protection

#### **Exposure Guidelines**

| Component         | Alberta | British<br>Columbia | Ontario TWAEV | Quebec | ACGIH TLV | OSHA PEL                              | NIOSH IDLH                      |
|-------------------|---------|---------------------|---------------|--------|-----------|---------------------------------------|---------------------------------|
| Silica, amorphous |         |                     |               |        |           | (Vacated) TWA:<br>6 mg/m <sup>3</sup> | IDLH: 3000<br>ma/m <sup>3</sup> |
|                   |         |                     |               |        |           | o mg/m                                | TWA: 6 mg/m <sup>3</sup>        |

#### Legend

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

#### **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 Protection** Goggles

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | Glove comments         |
|----------------|-------------------|-----------------|------------------------|
| Natural rubber | See manufacturers | -               | Splash protection only |
| Nitrile rubber | recommendations   |                 |                        |
| Neoprene       |                   |                 |                        |
| PVC            |                   |                 |                        |

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

## **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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.

Recommended Filter type: Particle filter

#### **Environmental exposure controls**

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

#### **CAB-O-SIL® M5**

## 9. Physical and chemical properties

Physical StatePowder SolidAppearanceWhiteOdorOdorless

Odor Threshold No information available

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Melting Point/Range1710 °C / 3110 °FBoiling Point/RangeNo information availableFlash PointNo information availableEvaporation RateNot applicable

Flammability (solid,gas)

Not applicable
Not applicable

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Vapor DensityNot applicableDensity2.2 g/cm3

Specific GravityNo information availableSolubilityNo information availablePartition coefficient; n-octanol/waterNo data available

Autoignition Temperature No data available

**Decomposition Temperature**No information available

Viscosity Not applicable

Molecular Formula O2 Si Molecular Weight 60.08

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products Silicon dioxide

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

## Product Information

**Component Information** 

| Component LD50 Oral |                   | LD50 Dermal          | LC50 Inhalation |  |
|---------------------|-------------------|----------------------|-----------------|--|
| Silica, amorphous   | >5000 mg/kg (Rat) | >2000 mg/kg (Rabbit) | -               |  |

Toxicologically Synergistic No information available

**Products** 

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

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

#### CAB-O-SIL® M5

| Component         | CAS-No    | IARC       | NTP   | ACGIH      | OSHA       | Mexico     |
|-------------------|-----------|------------|-------|------------|------------|------------|
| Silica, amorphous | 7631-86-9 | Not listed | Known | Not listed | Not listed | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

No information available. **Teratogenicity** 

STOT - single exposure None known STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

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

## 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains. .

| Component Freshwater Algae |                    | Freshwater Fish      | Microtox   | Water Flea          |  |
|----------------------------|--------------------|----------------------|------------|---------------------|--|
| Silica, amorphous          | EC50: 440 mg/L/72h | LC50: 5000 mg/L/96 h | Not listed | EC50: 7600 mg/L/48h |  |

Persistence and Degradability Insoluble in water

**Bioaccumulation/ Accumulation** No information available.

Is not likely mobile in the environment due its low water solubility. **Mobility** 

### 13. Disposal considerations

**Waste Disposal Methods** 

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.

|             | 14. Transport information |
|-------------|---------------------------|
| DOT         | Not regulated             |
| DOT<br>TDG  | Not regulated             |
| <u>IATA</u> | Not regulated             |
| IMDG/IMO    | Not regulated             |

## 15. Regulatory information

#### International Inventories

| Component         | CAS-No    | DSL   | NDSL | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive |      | notification - |       | EINECS | ELINCS | NLP |
|-------------------|-----------|-------|------|------|---|------|----------------|-------|--------|--------|-----|
| Silica, amorphous | 7631-86-9 | X     | -    | Х    | ACTIVE  |      | 231-545-4      | -     | -      |        |     |
| Component         | CAS-No    | IECSC | KECL | ENCS | ISHL  | TCSI | AICS           | NZIoC | PICCS  |        |     |

Silica, amorphous 7631-86-9 KE-31032

Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

#### Other International Regulations

### Authorisation/Restrictions according to EU REACH

### Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component         | CAS-No    | OECD HPV  | Persistent Organic<br>Pollutant  | Ozone Depletion<br>Potential  | Restriction of<br>Hazardous<br>Substances (RoHS) |
|-------------------|-----------|---|--|-------------------------------|--|
| Silica, amorphous | 7631-86-9 | Listed  | Not applicable   | Not applicable                | Not applicable                                   |
|                   |           |   |  |                               |  |
| Component         | CAS-No    | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident<br>Notification | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report<br>Requirements | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste)            |
| Silica amorphous  | 7631-86-9 | Not applicable  | Not applicable   | Not applicable                | Not applicable                                   |

## 16. Other information

Prepared By Regulatory Affairs

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**Revision Summary**This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**