

# SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), 2020/878  
Version 3.0 Revision date: 05-08-2022  
Trade name: Aerosil

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According to Article 31 of Regulation (EC) No 1907/ 2006 (REACH), a safety data sheet (SDS) must be provided for hazardous substances or mixtures. This product does not meet the classification criteria of Regulation (EC) No 1272/ 2008 (CLP). Therefore, such a document falls outside the scope of Article 31 of REACH and the requirements for the content of each section do not apply.

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1 Product identification:**

Product name: Aerosil, CAB-O-SIL M-5 Untreated Fumed Silica  
Shape: Nano form  
REACH registration number: 01-2119379499-16  
Synonyms: Silicon dioxide, Synthetic amorphous silica, Pyrogenic amorphous silica (fumed silica)

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

Recommended uses: Various, Rheological control, Flow agent, Anti-caking agent, Anti-caking agent, Anti-dusting agent, Spray additive, Thickener, Carrier, Viscosity regulator, Polishing or matting agent, Chemical intermediate, Stabiliser, 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 measures.  
Uses advised against: Unknown.

### **1.3 Details of the supplier of the safety data sheet:**

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### **1.4 Emergency phone number:**

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.  
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### **2.1 Classification of the substance or mixture:**

**Classification according to directive (EC) No 1272/2008 and its amendments.**

This substance is classified as non-hazardous according to Regulation (EC) No 1272/2008 [CLP].

### **2.2 Labelling elements:**

**Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:**

**Hazard pictograms:**

None

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**Signal word:**

None

**Hazard statements:**

None

**Precautions - EC (§ 28, 1272/2008):**

None

**2.3 Other hazards:**

May cause mechanical irritation.

The dust may be irritating to the respiratory tract.

**Information on endocrine disruption**

The substance/mixture does not contain components considered to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition and information on ingredients**

**3.1 Substances:**

Substance name (synonyms):	Product identification	%	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP].
Synthetic Amorphous, Pyrogenic Silica	CAS No: 112945-52-5 EC No : 231-545-4 REACH registration number : 01-2119379499-16	> 99.9 %	-

**Additional information**

Legal information can be found under general silica: CAS RN 7631-86-9 , EINECS RN 231-545-4.

The hyphen (-) means "not applicable".

**Particle properties:**

Particle size distribution (internal structure/primary particles)

D10: 7-15 nm

D50: 2-30 nm

D90: 10-35 nm

Shape: spheroidal/spherical; Synthetic amorphous silica exists as a nanostructured material consisting of aggregates and agglomerates composed of fused primary particles.

Crystallinity: Amorphous

Surface treatment: No

Specific surface area: 50-450 m<sup>2</sup>/g

**SECTION 4: First aid measures**

**4.1 Description of first-aid measures:**

**Inhalation:**

In case of coughing, shortness of breath or other breathing problems, move victim into fresh air.

Consult a doctor if symptoms persist.

If necessary, restore breathing by applying standard first-aid measures.

**Eye contact:**

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.

Seek medical attention if symptoms occur.

**Skin contact:**

Wash skin with soap and water.

Seek medical attention if symptoms occur.

**Ingestion:**

DO NOT induce vomiting.

Rinse mouth thoroughly with water.

In an unconscious person, never administer anything by mouth.

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#### 4.2 Main acute and delayed symptoms and effects:

##### **Symptoms:**

See section 11 for additional toxicological information.

#### 4.3 Indication of immediate medical attention and special treatment required:

##### **Notes for doctors:**

Treating the symptoms.

### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media:

##### **Suitable extinguishing agents:**

Silica is not flammable, therefore no extinguishing agents need to be declared.

##### **Unsuitable extinguishing media:**

None.

#### 5.2 Special hazards arising from the substance or mixture:

##### **Specific hazards caused by the chemical:**

None.

##### **Hazardous combustion products:**

None.

#### 5.3 Advice for firefighters:

##### **Special protective equipment and precautions for firefighters:**

In case of fire: wear self-contained breathing apparatus.

Use personal protective equipment.

### **SECTION 6: Measures in case of accidental release of the substance or mixture**

#### 6.1 Personal precautions, protective equipment and emergency procedures:

##### **Personal precautions:**

Avoid dust generation.

Ensure adequate ventilation.

Use the necessary personal protective equipment.

See paragraph 8.

#### 6.2 Environmental precautions:

##### **Environmental precautions:**

Local authorities should be informed if significant spills cannot be controlled.

See section 12 for additional ecological information.

#### 6.3 Methods and materials for containment and cleaning:

##### **Methods of containment:**

Absorb the spill on land, if possible.

Prevent further leakage or spillage of product if it is safe to do so.

##### **Cleaning methods:**

Immediately clean up with a Hoover.

Use of a Hoover with high-efficiency particulate filter (HEPA) is recommended.

Do not use a broom or compressed air to prevent the formation of a dust cloud.

Pick up and transfer to correctly labelled containers.

See paragraph 13.

#### 6.4 Reference to other sections:

See Section 8 for more information.

See Section 13 for more information.

### **SECTION 7: Handling and storage:**

#### 7.1 Precautions for safe handling of the substance or mixture:

##### **Advice on safe handling of the substance or preparation:**

Avoid contact with eyes and skin.

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Avoid dust generation.

Do not inhale dust.

Provide suitable local exhaust ventilation for machinery and in areas where dust may be generated.

Do not use a broom or compressed air to prevent the formation of a dust cloud.

Take measures against static electricity discharges.

All metal parts of the mixing and processing equipment must be earthed.

Before starting transfer operations, ensure that all equipment is properly electrically earthed.

Fine dust can enter electrical equipment and potentially cause electrical short circuits.

## General hygiene instructions:

Observe good industrial hygiene and safety procedures during use.

### 7.2 Conditions for safe storage, including incompatibilities:

#### Storage conditions:

Store in tightly closed container in a dry, well-ventilated place.

Do not store in combination with volatile substances as they may be absorbed by the product.

Store at ambient conditions.

Store in properly labelled containers.

### 7.3 Specific end use:

#### Risk management measures (RMM):

In accordance with Article 14.4 of the REACH regulation, no exposure scenario has been developed as the substance is not harmful.

## SECTION 8: Exposure controls/personal protection measures

### 8.1 Control parameters:

#### Exposure guidelines:

The table below should be considered a summary.

For additional information, please refer to specific laws and regulations.

Name of chemical	Amorphous silica 7631-86-9
Austria	TWA: 4 mg/m <sup>3</sup>
Czech Republic	TWA: 0.1 mg/m <sup>3</sup> respirable fraction; 4.0 mg/m <sup>3</sup> (as amorphous SiO <sub>2</sub> )
Finland	TWA: 5 mg/m <sup>3</sup>
Germany MAK	TWA: 4 mg/m <sup>3</sup> inhalable fraction
Ireland	TWA: 6 mg/m <sup>3</sup> total inhalable dust; 2.4 mg/m <sup>3</sup> respirable dust STEL: 18 mg/m <sup>3</sup> respirable dust, calculated; 7.2 mg/m <sup>3</sup> respirable dust, calculated
Norway	TWA: 1.5 mg/m <sup>3</sup> respirable dust STEL: 3 mg/m <sup>3</sup> respirable dust, calculated
Slovenia	TWA: 4 mg/m <sup>3</sup>
Switzerland	TWA: 4 mg/m <sup>3</sup>
United Kingdom	TWA: 6 mg/m <sup>3</sup> inhalable dust; 2.4 mg/m <sup>3</sup> respirable dust STEL: 18 mg/m <sup>3</sup> inhalable dust, calculated; 7.2 mg/m <sup>3</sup> respirable dust, calculated
Name of chemical	Dust or particles not otherwise specified RR-00072-6
Belgium	TWA: 3 mg/m <sup>3</sup> alveolar fraction; 10 mg/m <sup>3</sup> inhalable fraction
France	TWA: 10 mg/m <sup>3</sup> inhalable; 5 mg/m <sup>3</sup> alveolar fraction
Ireland	TWA: 10 mg/m <sup>3</sup> total inhalable; 4 mg/m <sup>3</sup> respirable STEL: 30 mg/m <sup>3</sup> total inhalable, calculated; 12 mg/m <sup>3</sup> respirable, calculated
Italy REL	TWA: 10 mg/m <sup>3</sup> inhalable particles, calculated; 3 mg/m <sup>3</sup> respirable particles, calculated
Norway	TWA: 10 mg/m <sup>3</sup> total dust; 5 mg/m <sup>3</sup> respirable dust STEL: 20 mg/m <sup>3</sup> total dust, calculated; 10 mg/m <sup>3</sup> respirable dust, calculated
Portugal	TWA: 10 mg/m <sup>3</sup> inhalable fraction; 3 mg/m <sup>3</sup> respirable fraction
Slovakia	TWA: 10 mg/m <sup>3</sup>
Spain	TWA: 10 mg/m <sup>3</sup> inhalable fraction; 3 mg/m <sup>3</sup> respirable fraction
ACGIH TLV	TWA: 10 mg/m <sup>3</sup> inhalable particles, recommended TWA: 3 mg/m <sup>3</sup> respirable particles, recommended

Other information:

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In its global plants, Cabot Corporation applies the German TRGS 900 occupational exposure limit of 4 mg/m<sup>3</sup>, TWA (time-weighted average), inhalable fraction, for silica.

**Derived no-effect doses (DNEL):**

As required by the European REACH Regulation (Registration, Evaluation and Authorisation of Chemicals), the Synthetic Amorphous Silica REACH Consortium (of which Cabot Corporation is a member) has established a DNEL (Derived No Effect Level) for synthetic amorphous silica of 4 mg/m<sup>3</sup> inhalable fraction (German TRGS 900 - occupational exposure limit).

**Predicted no effect concentration (PNEC) :**

Not applicable.

8.2 Exposure control measures:

**Technical management measures:**

Ensure adequate ventilation to keep exposure below occupational exposure limits.  
Provide suitable local exhaust ventilation for machinery and in areas where dust may be generated.  
Provide eye showers and safety showers close to the workplace.

**Personal protective equipment [PPE]:**

**Eye/face protection:**

Wear safety glasses with side shields (or dust goggles).

**Hand protection:**

Wear protective gloves to avoid drying out the skin.  
Apply protective skin cream before handling the product.

**Skin and body protection:**

Wear suitable protective clothing.  
Wash contaminated clothes before reusing them.  
Contaminated work clothes must not leave the work area.

**Respiratory protection:**

Approved respiratory protection may be necessary if local exhaust ventilation is insufficient.

**General hygiene instructions:**

Observe good industrial hygiene and safety procedures during use.

**Managing environmental exposure:**

In accordance with all local regulations and licensing conditions applicable to dust.

**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties:

Physical state:	Solid
Occurrence:	Powder
Colour:	white
Smell:	None.
Odour threshold:	Not applicable
Melting/freezing point:	1700 °C NIOSH Pocket Guide to Chemical Hazards.
Boiling point/boiling range:	2230 °C NIOSH Pocket Guide to Chemical Hazards.
Flammability (solid, gas):	Not flammable. The product is resistant to ignition and does not promote flame spread
Flammability limit in air:	Not applicable
Flash point:	Non-flammable
Self-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
pH:	3.6 - 4.5 (Internal testing)
Kinematic viscosity:	Not applicable
Dynamic viscosity:	Not applicable
Solubility in water:	Soluble In accordance with OECD 105, strengthened
Solubility:	No data available
Partition coefficient:	Not applicable

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Vapour pressure: Not applicable  
Relative density: 2.2 @ 20°C  
Bulk density: 30-150 kg/m<sup>3</sup> DIN/ISO 787:11  
Relative vapour density: Not applicable

## Particle properties:

Particle size distribution (internal structure/primary particles)

D10: 7-15 nm  
D50: 2-30 nm  
D90: 10-35 nm  
Shape: spheroidal/spherical; Synthetic amorphous silica exists as a nanostructured material consisting of aggregates and agglomerates composed of fused primary particles

Dissolution rate: Soluble ( 155-230 mg/L; OECD 105 enhanced )  
Agglomeration state: Agglomerates the size of a micron  
Specific surface area: 50-450 m<sup>2</sup>/g

## 9.2. Other information

Information on physical hazard classes: Not applicable

## Other safety features

Explosive properties: Non-explosive  
Oxidising properties: No

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Non-reactive.

The substance is an inert, inorganic solid.

### 10.2 Chemical Stability:

Stable under recommended handling and storage conditions.

### Explosion data:

#### Sensitivity to mechanical shock:

No

#### Sensitivity to static discharge:

This material is an inorganic substance and will not create or sustain conditions resulting in a dust explosion or fire.

Take measures against static electricity discharges.

Avoid dust generation.

All metal parts of the mixing and processing equipment must be earthed.

Before starting transfer operations, ensure that all equipment is properly electrically earthed.

### 10.3 Potential Hazardous Reactions:

#### Hazardous polymerisation:

Hazardous polymerisation does not take place.

#### Possible hazardous reactions:

None with normal processing.

### 10.4 Conditions to avoid:

None known.

### 10.5 Chemically interacting Materials:

None known.

### 10.6 Hazardous Decomposition Products:

None known.

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects:**

#### **Acute toxicity**

##### Oral LD50

> 5000 mg/kg (rat).

No mortality occurred and no signs of toxicity were observed during the observation periods after single oral administration of silica (OECD 401).

##### Dermal LD50

> 2000 mg/kg (rabbit).

Very mild, transient erythema in one animal.

No signs of systemic or organ toxicity (OECD 402).

##### Inhalation LC50

Given the physical properties of the product, no suitable test procedure is available.

#### **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 hrs.

Not classified as an irritant in studies with rabbits (OECD 405).

High concentrations of dust can cause mechanical irritation.

#### **Respiratory/skin sensitisation**

No laboratory animal data are available.

No cases of sensitisation in humans have been reported.

#### **Mutagenicity in gametes**

Not mutagenic in Ames test .

Negative in test for unregulated DNA synthesis.

Negative in chromosome ablation test in ovarian cells of Chinese hamster (CHO cells).

#### **Carcinogenicity**

No evidence of carcinogenicity was observed in several animal species after repeated oral or inhalation exposure to amorphous silica.

Epidemiological studies also show no evidence of carcinogenicity in workers producing amorphous silica.

#### **Reproductive toxicity**

No effects on reproductive organs or foetal development have been reported in toxicity studies with animals.

#### **Specific target organ toxicity - single exposure**

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

#### **Specific target organ toxicity - repeated exposure**

Repeated exposure toxicity: oral (rat ), 2 weeks to 6 months, no significant treatment-related adverse effects at doses up to 8% dietary silica .

Repeated exposure toxicity: inhalation (rat ), 13 weeks, LOEL (Lowest Observed Effect Level; lowest dose at which an effect was observed) = 1.3 mg/m<sup>3</sup> based on mild reversible effects in the lungs.

Repeated exposure toxicity: inhalation (rat ), 90 days, LOEL (Lowest Observed Effect Level; lowest dose at which an effect was observed) = 1 mg/m<sup>3</sup> based on reversible effects in the lungs and effects in the nasal cavity.

Repeated-dose toxicity using SAS 400 m<sup>2</sup>/g: inhalation (rat), 90 days, completely reversible inflammation related to clearance processes after recovery period.

NOAEC (lung) based on histopathology and inflammatory marker is 5 mg/m<sup>3</sup>.

Based on the available data, an STOT-RE classification is not justified.

#### **Inhalation hazard**

Based on industry experience and available data, no aspiration hazard is expected .

### **11.2. Information on other hazards**

#### **Endocrine disrupting properties:**

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The substance/mixture does not contain components considered to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Other adverse effects:**

No information available.

**SECTION 12: Ecological information**

**12.1 Toxicity:**

**Ecotoxicity:**

Fish (Brachydanio rerio) LC50 (96 hr): > 10,000 mg/ l; (Method: OECD 203).

No acute toxicity for EL and EL50 ranging from >1000 to 10,000 mg/ l (OECD 202).

**12.2 Persistence and Degradability:**

The method for determining biodegradability does not apply to inorganic substances.

**12.3 Bioaccumulation:**

Not expected due to the physicochemical properties of the substance.

**12.4 Mobility in soil:**

Not expected to migrate.

**12.5 Results of PBT and vPvB assessment:**

This substance is not considered persistent , bioaccumulative or toxic (PBT).

This substance is not considered very persistent or very bioaccumulative (vPvB).

**12.6. Hormone-disrupting properties**

The substance/mixture does not contain components considered to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other Harmful Effects:**

No data available.

**SECTION 13: Disposal instructions**

**Waste from residue/unused products:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Dispose of waste in accordance with environmental legislation.

**Contaminated packaging:**

Dispose of contents/packaging in accordance with local, regional, national and international regulations (if applicable).

**Waste codes/waste designations in accordance with EWC / AVV:**

Not applicable.

**SECTION 14: Information relating to transport**

**14.1 UN number**

Not regulated as a hazardous substance

**14.2 Proper cargo name according to UN model regulations**

Not regulated as a hazardous substance

**14.3 Transport hazard class(es)**

Not regulated as a hazardous substance

**14.4 Packing group**

Not regulated as a hazardous substance

**14.5 Environmental hazards**

Not regulated as a hazardous substance

**14.6 Special precautions for the user**

Not applicable

**14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code**

Not applicable for product, as delivered.

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## **SECTION 15: Statutory information**

### 15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

#### **National regulations**

##### **Germany**

Water hazard class (WGK): not harmful to water (nwg)

#### **International inventories**

TSCA: Complies with  
DSL/NDSL: Complies with  
EINECS/ELINCS: Complies with  
ENCS: Complies with  
IECSC: Complies with  
KECL: Complies with  
PICCS: Complies with  
AICS: Complies with  
TCSI: Complies with  
NZIoC: Complies with

#### **Remark:**

Legal information can be found under general silica: CAS 7631-86-9, EINECS 231-545-4.

#### **Legend:**

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

### 15.2 Chemical safety assessment:

A chemical safety assessment has been carried out for this substance.

## **SECTION 16: Other information**

An explanatory list of abbreviations and acronyms used in the safety data sheet....

#### **Legend**

PBT: Persistent, bioaccumulative and toxic (PBT) chemicals  
vPvB: Very persistent and very bioaccumulative (vPvB) chemicals  
TWA: TWA (time-weighted average)  
STEL: STEL (short-term exposure limit).  
Ceiling value: Maximum limit value  
(\*): Skin indication

#### **Key literature references and data sources used to compile the safety data sheet**

NIOSH Pocket Guide to Chemical Hazards, September 2005. "Silica, amorphous" (Silica, amorphous). DHHS (NIOSH) Publication No. 2005-149. National Technical Information Service, Springfield, VA. p. 277

**Prepared by:** Cabot Corporation - Department of Safety, Health and Environment

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**Reason for revision:** Amendments to section(s) 3,8,9,11

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## **Disclaimer statement**

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