

## ARTICLE INFORMATION SHEET

AEROGEL insulation products are not substances or mixtures but articles. Therefore, a compilation of a Safety Data Sheet (SDS) is not required by Regulation (EC) n. 1907/2006.

Products do not contain substances satisfying the criteria referred to in Art. 57 and identified by Art. 59 of Regulation (EC) No. 1907/2006.

This document (AIS) is let available to employers to be used as source of information on possible hazards - including environmental ones - In relation to the exposure environment and to give recommendations and precautions on proper use and handling of products.

Therefore, following information will allow the employer

- a) draw up an active program of measures to protect the worker, including training, specific to each workplace and
- b) arrange any measures that may be necessary to protect the environment.

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### 1. Identification of the Article and the Company

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#### 1.1 Product Identifier

**Product Type:** Silica aerogel composite mineral fiber

**Synonyms:** AEROGEL A2, AEROGEL BV

#### 1.2 Relevant Identified Uses of the Article and Uses Advised Against

**Product Use:** High performance thermal insulation material

**Uses Advised Against:** None

#### 1.3 Details on Supplier of the Article/Product

**Manufacturer:**

ECOFINE S.R.L  
P.zza Gazzolo 22/a - Via Padovana 206  
37040 Arcole, Verona, IT

#### 1.4. Emergency Telephone Number

**Emergencies:** +39 045 245 6609 ECOFINE SRL

**Other Product Information:** info@ecofine.it

**AIS Date of Preparation:** January/2016

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### 2. Hazard Identification

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#### 2.1. Classification of the Substance contained in the Article CLP/GHS Classification (1272/2008)

Health Hazards	Physical Hazards	Environmental Hazards
Not Hazardous	Not Hazardous	Not Hazardous

## 2.2. Carcinogenicity

Substance	ACGIH	IARC
Synthetic Amorphous Silica	-	-
Aluminum oxide	n.d.	-
Glass fiber	group A4	group 3

## 2.3. Label Elements

Not hazardous in accordance with the Regulation (EC) 1272/2008 CLP and subsequent modifications and integrations.

Release of powder of amorphous and inert nature must be considered as normal during the handling, processing and laying of the product.

### Pictogram:

None

### Notes:

None

### Hazard statements:

None

### Precautionary statements:

None

## 2.4. Other Hazards

None.

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## 3. Composition/Information on Ingredients

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<i>Substance</i>	<i>CAS / EINECS</i>	<i>%</i>	<i>Classification under CLP/GHS (1272/2008)</i>
Synthetic Amorphous Silica	7631-86-9 / 231-545-4	50-55	not dangerous
Aluminum oxide	25038-59-9 / Non applicabile	1-5	not dangerous
Glass fiber	N.A / N.A.	40-45	not dangerous

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## 4. First-Aid Measures

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### 4.1. Description of First Aid Measures

**Inhalation:** If dust is inhaled, remove to fresh air. Drink water to clear throat, and blow nose. If irritation occurs or symptoms develop, seek medical attention.

**Eyes:** Do not rub eyes. Dust particles may cause abrasive injury. Immediately flush eyes with water while lifting the upper and lower lids. Seek medical attention if irritation persists.

**Skin:** Wash skin with soap and water. If irritation develops, seek medical attention, launder clothing before reuse.

**Ingestion:** No first aid is generally required. No adverse effects are expected from incidental ingestion.

### 4.2. Most Important symptoms and effects, both acute and delayed:

Dust may cause eye irritation. Silica aerogels are hydrophobic (repel water) and may cause temporary drying and irritation of the skin, eyes, and mucous membranes. Inhalation of dust from handling may cause temporary upper respiratory tract irritation. Handling may cause dryness and irritation of the skin.

### 4.3. Indication of any immediate medical attention and special treatment needed:

Immediate medical attention is generally not required.

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## 5. Fire-Fighting Measures

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### 5.1. Extinguishing Media

#### Mezzi di Estinzione Idonei:

Carbon dioxide (CO<sub>2</sub>), dry powder or water jet. For larger fire extinguishing, use water jet or alcohol-resistant foam

#### Mezzi di Estinzione Non Idonei:

nessuno

### 5.2. Special Hazards Arising from the Substance or Mixture

Keep hot material away from combustible materials and cool hot insulation with water

### 5.3. Advice for Fire-Fighters

Normal firefighting procedures should be followed to avoid inhalation of smoke and gases produced by a fire

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## 6. Accidental Release Measures

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### 6.1. Personal Precautions

Wear appropriate protective clothing and equipment. Avoid generating airborne dust during cleanup. Ensure adequate ventilation. See Section 8 for equipment

### 6.2. Environmental Precautions

No special intervention measurements are needed. Material is not water soluble. Report spills as required under national and local regulations.

### 6.3. Methods for Containment and Cleaning Up

Collect using methods that avoid the generation of dust (pick up or vacuum dust) and place in appropriate container for disposal.

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## 7. Handling and Storage

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### 7.1. Precautions for Safe Handling

Aerogel products may generate dust in the workplace when handled. Workplace exposures to all dusts should be controlled with standard industrial hygiene practices.

Local exhaust ventilation (LEV) should be the primary dust control method.

Dry vacuuming is the preferred method for cleaning up dust.

Because aerogel dust is hydrophobic, water is not an effective dust control agent.

Unpack material in the work area. This will help to minimize the area where dust exposure may occur.

Waste material should be promptly packed in disposal bags. Trims and offcuts may be reused in secondary applications.

Avoid dust contact with eyes, skin and clothing and avoid breathing dust. Wash hands with soap and water after handling.

### 7.2. Conditions for Safe Storage, Including any Incompatibilities

Keep tightly closed in the packaging until ready for use. Store in a dry location.

### 7.3. Specific end uses

#### Industrial uses:

Thermal insulation

#### Professional uses:

Thermal insulation

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## 8. Exposure Controls/Personal Protection

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### 8.1. 8 HOURS EXPOSURE LIMITS

**Control Parameters:** There are no identified exposure limits for substances made the product. The exposure limits for components or similar components are given below. The table is indicative and not exhaustive.

Synthetic Amorphous Silica	US OSHA PEL (TWA)  15 mg/m <sup>3</sup> - total inhalable fraction 5 mg/m <sup>3</sup> - inhalable fraction  UK WEL  6 mg/m <sup>3</sup> - total inhalable fraction 2.4 mg/m <sup>3</sup> - inhalable fraction
Aluminum oxyde	US OSHA PEL (TWA)  15 mg/m <sup>3</sup> - total inhalable fraction 5 mg/m <sup>3</sup> - inhalable fraction  UK WEL 10 mg/m <sup>3</sup> - total inhalable fraction 4 mg/m <sup>3</sup> - inhalable fraction
Glass fiber	US OSHA PEL (TWA)  5 mg/m <sup>3</sup> - total inhalable fraction 2 mg/m <sup>3</sup> - inhalable fraction  UK WEL n.d. - total inhalable fraction n.d. - inhalable fraction

For complete information, please refer to the specific Country legislation.

### 8.2. Exposure Controls

#### Recommended Monitoring Procedures

Collection on filters with analysis

#### Appropriate technical controls

Use with adequate local exhaust ventilation to minimize exposures. Provide local exhaust ventilation (LEV) where product is processed in a manner that generates dust

### 8.3 Personal Protective Measures

#### Respiratory protection

If exposures exceed the occupational exposure limits or if inhalation of dust results in experiencing irritation, an appropriate particulate respirator is recommended.

Selection of respiratory protection depends on the contaminant type, form and concentration.

During activities where high dusts are released, use approved dust masks (according to EEC regulations), minimum FP1 or better FP2. Select, fit and use in accordance with local and national regulations.

#### Skin protection

Gloves recommended for handling product. Long-sleeved and long-legged work clothing are also advised

#### Eye protection

Safety glasses with side shields or dust goggles in compliance with EN166 recommended

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## 9. Physical and Chemical Properties

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### 9.1. Information on basic Physical and Chemical Properties

**Physical state:** solid

**Design:** blankets, panels, boards, cutted fibres

**Appearance:** white fibrous matrix, with or without coating, with or without reinforcement

**Odor:** none

**Odor threshold:** n.a

**pH:** n.a

**Melting point/freezing point:** the core of the fiber melts over 350 °C

**Boiling point:** n.a

**Flash point:** n.a

**Flammability (solid, gas):** non flammable

**Density:** 180-220 Kg/m<sup>3</sup>

**Solubility In Water:** insoluble in water

**Auto-ignition temperature:** n.a

**Decomposition temperature:** n.d

**Viscosity:** n.a

**Explosive Properties:** none

**Oxidizing Properties:** none

### 9.2. Other Information

No additional information.

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## 10. Stability and Reactivity

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### 10.1. Reactivity

Not reactive under normal conditions of use

### 10.2. Chemical stability

Stable under recommended handling and storage conditions

### 10.3. Possibility of hazardous reactions

None known

### 10.4. Conditions to avoid

Avoid prolonged exposure above the recommended use temperature

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Organic decomposition products

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## 11. Toxicological Information

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### 11.1. Information on Toxicological Effects

#### Potential Health Effects:

#### Inhalation

Inhalation of dust may cause temporary irritation of the mucous membranes and upper respiratory tract

#### Ingestion

No adverse effects expected. However do not ingest

#### Skin contact

Handling may cause dryness and temporary irritation of the skin. Temporary irritation is possible. Such irritation has the only mechanical and temporary appearance

**Eye contact**

Contact may cause irritation with redness and tearing. Dust may cause abrasive injury

**Chronic Effects**

None known

**Sensitization**

Some allergies to glass fibers are known

**Carcinogenicity**

None of the components are listed as carcinogens or suspected carcinogens by EU CLP

**Reproductive Toxicity**

None known

**12. Ecological Data****12.1. Toxicity****Water toxicity**

Aquatic toxicity is expected to be poor due to low solubility

**12.2. Persistence and degradability**

Methods for determination of biodegradability do not apply to inorganic substances

**12.3. Bioaccumulative potential**

Not expected due to the physical chemical characteristics of the substances

**12.4. Mobility in soil**

Not known

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

Substances composing the product are not considered to be persistent, bioaccumulative or toxic (PBT).

Substances composing the product are not considered to be particularly persistent or particularly bioaccumulative (vPvB).

**12.6. Other adverse effects**

No data available

**13. Disposal Considerations****Waste Treatment Methods**

Mineral fiber residues, according to local standards, can be considered as inert waste or normal industrial waste. As such they can be deposited in approved landfills for non-hazardous waste. Dispose of in accordance with national and local regulations

**European Waste Characterisation**

17 06 04 "insulation materials different than those mentioned in 17 06 01 and 17 06 03".

**14. Transport Information**

	14.1. UN No.	14.2. UN Proper Shipping Name	14.3. Hazard Class	14.4. Packing Group	14.5. Environm Hazards
<b>US DOT</b>		not regulated			
<b>TDG</b>		not regulated			
<b>ADR/ RID UE</b>		not regulated			
<b>IMDG</b>		not regulated			
<b>IATA/ ICAO</b>		not regulated			
<b>MEX</b>		not regulated			

**Special precautions for User:** Not applicable

**Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code:** Not applicable, product is transported only in packaged form.

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## **15. REGULATORY INFORMATION**

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### **15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

REACH - AEROGEL insulation products are articles.

#### **REACH - Candidate List of Substances**

This product does not contain Substances of Very High Concern for Authorisation (Regulation EC 1907/2006, Art. 59).

#### **German WGK**

Not Hazardous to waters.

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## **16. Other Information**

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Herein Information are provided in good faith and in the best knowledge in the date on which the document was drawn up. We inform the user of possible hazards when using the product for uses other than those intended. The principle of user liability is in accordance with the activities of national, regional or local legislation.

**Compiled by:** Tech. Dept. ECOFINE S.R.L