
Alpha Silica Mat

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Alpha Silica Mat
Common Name: Insulation Mat
SDS Number: 0632
Revision Date: 8/30/2023

Supplier Details: Alpha Engineered Composites LLC.
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2 HAZARDS IDENTIFICATION**Classification of Substance****GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Health, Skin corrosion/irritation, 2
Health, Specific target organ toxicity - Single exposure, 3
Health, Serious Eye Damage/Eye Irritation, 2 B
Health, Respiratory or skin sensitization, 1 Skin

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:

**GHS Hazard Statements:**

H315 - Causes skin irritation
H335 - May cause respiratory irritation
H320 - Causes eye irritation
H317 - May cause an allergic skin reaction

GHS Precautionary Statements:

P103 - Read label before use.
P264 - Wash _ thoroughly after handling.
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
P337 - If eye irritation persists: _
P337+313 - Get medical advice/attention.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: This material may enter the body through inhalation of nuisance dust.
Target Organs: Respiratory system
Inhalation: Sore, raspy throat
Skin Contact: Redness and possible rash; itching
Eye Contact: Itching and redness
Ingestion: N/A

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COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:

CAS#

% Chemical Name:

7631-86-9

Silica, amorphous

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FIRST AID MEASURES

Inhalation:	Remove person to fresh air. If condition persists, seek medical attention.
Skin Contact:	Rinse with copious quantities of cool water. If rash or itching persists, seek medical attention.
Eye Contact:	Rinse with water. Do not rub eyes. Seek medical attention.
Ingestion:	Not applicable.

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FIRE FIGHTING MEASURES

Flash Point (Method Used): >250 °C by TOC

Extinguishing media: Dry chemical, foam, carbon dioxide (CO₂), water fog.

Unsuitable extinguishing media: None known.

Hazardous Decomposition Materials (Under Fire Conditions): Carbon monoxide, carbon dioxide, hydrogen, other undetermined compounds could be released in small quantities.

Special Fire Fighting Procedures: Fiberglass will not support combustion, but in a sustained fire, proper protection against products of combustion from the fuel and sizing/binder must be worn.

Special Protective Equipment for Fire-fighters: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes helmet, coat, pants, boots, and gloves).

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ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: No action shall be taken involving any personal risk or without suitable training. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Cleanup and Disposal of Spill: Sweep or gather up material and place in proper container for disposal or recovery. Use vacuuming or wet sweeping methods instead of dry sweeping.

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HANDLING AND STORAGE

Handling Precautions:	Avoid contact with skin and eyes. Ensure good ventilation/exhaustion at the workplace. Wear suitable protective equipment, see Section 8.
Storage Requirements:	Use may be at temperature extremes based on product data, but storage should be at ambient temperature. Store in dry, well ventilated area.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Local exhaust, dust collection. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).
Personal Protective Equipment:	Respiratory Protection: If use or application of this product generates dust, use an appropriate NIOSH-approved particulate filter respirator. Eye / Face Protection: Standard safety glasses with side shields. Skin Protection: Use gloves to protect against physical irritation or injury if required by handling conditions. Cover as much of the exposed area as possible, with protective clothing. Vacuum equipment may be used to remove fibers from clothes. Work clothing should be laundered separately from other clothing before reuse.

Control Parameters (Exposure Limits):

Component	Exposure limits	
	OSHA	ACGIH
Silica fiber	15 mg/m ³ TWA (total dust)	5 mg/m ³ (inhalable fraction)
	5 mg/m ³ TWA (respirable dust)	1 fiber/cm ³ TWA (respirable fraction)

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Fibrous Matting	Odor:	No Odor
Physical State:	Solid	Solubility:	No data available
Odor Threshold:	No data available	Softening Point:	No data available
Specific Gravity or Density:	2.5	Percent Volatile:	No data available
Viscosity:	No data available	Freezing or Melting Point:	No data available
Boiling Point:	No data available	Vapor Density:	No data available
Flammability:	No data available	Autoignition Temperature:	No data available
Vapor Pressure:	No data available		

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STABILITY AND REACTIVITY

Chemical Stability:	Material is stable.
Conditions to Avoid:	None known.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition:	Carbon monoxide; carbon dioxide
Hazardous Polymerization:	Will Not Occur.

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TOXICOLOGICAL INFORMATION

Acute toxicological data: There is no acute toxicological data available on this product. The oral, dermal, and inhalation acute toxicity are expected to be very low.

Information in the likely route of exposure & potential acute health effects:

Skin Irritation: Dusts from this product may cause temporary mechanical irritation to the skin.

Eye Irritation: Dusts from this product may cause temporary mechanical irritation to the eyes.

Inhalation: Dusts from this product may cause mechanical irritation of the nose, throat, and respiratory tract. Ingestion: Although ingestion is not likely to occur in industrial applications, accidental ingestion may cause irritation of the mouth and gastrointestinal tract.

Chronic Toxicity: No information available.

Delayed and immediate effects and also chronic effects from short and long-term exposure: There are no known health effects from the long term use or contact, with non-respirable fibers.

Short term exposure: No information available.

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ECOLOGICAL INFORMATION

Ecotoxicity Effects: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

Results of PBT and vPvB assessment: No information available

Other adverse effects: Fiberglass is generally considered to be an inert solid waste. No special precautions are needed in case of a release or spill.

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DISPOSAL CONSIDERATIONS

Waste treatment methods: Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations.

Uncleaned packaging: Dispose of in accordance to all local, state, and/or national legislation. Empty containers should be recycled or disposed of through an approved waste management facility.

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TRANSPORT INFORMATION

Not regulated for transport.

International Chemical Inventories: Continuous filament silica fiber products are articles. Articles are exempted from registration or listing under chemicals inventories.

INTERNATIONAL REGULATIONS:

Canadian (DSL/NDSL): Article (exempt)

Australian (ACIS): Article (exempt)

Korea (KECI): Article (exempt)

Japan (ENCS, MITI): Article (exempt)

China (IECSC): Article (exempt)

EU Directive (RoHS 3): Product is in compliance with the European Directive (EU) 2015/863 on Restriction on Hazardous Substances.

EU REACH (235, Updated 06/2023) SVHC: Product is considered compliant with Regulation EC 1907/2006 or Registration, Evaluation, Authorization and restriction of Chemicals (REACH) legislation, including REACH Annex XIV ("Authorisation List") and REACH Annex XVII ("Restricted Substances").

TSCA (Toxic Substances Control Act): All materials are listed or exempt from TSCA listing.

CERCLA (Comprehensive Emergency Response, Compensation, and Liability Act): N/A

SARA TITLE III (Superfund Amendments and Reauthorization Act): N/A

311/312 HAZARD CATEGORIES: None

Conflict Minerals: This product as formulated does not contain any of the "Conflict Minerals" originating from the Democratic Republic of the Congo or adjoining countries, which include Gold, Colombite-Tantalite (Tantalum), Casserite (Tin), and Wolframite (Tungsten).

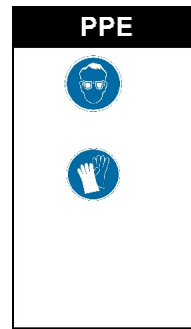
California Proposition 65: This product does not contain chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

The guidance above is based upon information provided by our raw material suppliers, knowledge of our products and process, and/or outside laboratory testing.

NFPA: Health = 1, Fire = 0, Reactivity = 0, Specific Hazard = None
HMIS III: Health = 1, Fire = 0, Physical Hazard = 0
HMIS PPE: B - Safety Glasses, Gloves



HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



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Disclaimer:

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