

Material Safety Data Sheet



Contact Information

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SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Quartzene[®] powder, type Z1, hydrophobized

Product Use: Specialty Chemical Additive

Product Number(s):

Synonyms: Methylated Synthetic Amorphous Silica

Company Identification

Svenska Aerogel AB
Strömmavägen 2
SE-803 09 GÄVLE
Sweden

Product Information

MSDS Requests: +46 70 656 80 42 (Sweden)
Product Information: +46 70 656 80 42 (Sweden)

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Silicon dioxide (amorphous), methylated	68909-20-6	>90 % by weight

Toxicological Data on Ingredients: N/A

SECTION 3 HAZARDS IDENTIFICATION

Quartzene[®] powder, type Z1, hydrophobized, is not explosive, flammable, or combustible. Do not expose to temperatures above 300 °C. Above 300 °C thermal decomposition can take place under the release of carbon dioxide, carbon monoxide and formaldehyde.

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion and of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available

MUTAGENIC EFFECTS: Not available

TERATOGENIC EFFECTS: Not available

DEVELOPMENTAL TOXICITY: Not available

SECTION 4 FIRST AID MEASURES

Eye contact: Flush eyes with plenty of water. Get medical attention if irritation persists.

Skin: Wash skin thoroughly with soap and water.

Ingestion: Incidental ingestion of this product does not require first aid.

Inhalation: Drink water to clear the throat, blow nose to clear respiratory passages.

SECTION 5 FIRE FIGHTING MEASURES

Flammability of the Product: Non-flammable.

Products of Combustion: May release carbon dioxide (CO₂), carbon monoxide (CO), formaldehyde and other organic compounds of decomposition.

Firefighting Media and Instructions: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon Dioxide (CO₂). Foam. Dry chemical. Water.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Management: Clean up promptly by vacuum. Use of vacuum with high efficiency particulate air (HEPA) is recommended. Do not create a dust cloud by using a brush or compressed air. Dry sweeping is not recommended. Dispose of in accordance with local authority requirements.

SECTION 7 HANDLING AND STORAGE

General Handling Information: Avoid contact with eye and skin. Avoid dust formation. Do not breath dust. Provide appropriate exhaust ventilation at machinery and places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Avoid releasing this material into sewage and drainage systems and bodies of water.

General Hygiene Information: Handle in accordance with good industrial hygiene and safety practice.

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

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

A threshold limit value-time weighted average (TLV-TWA) of 10 mg/m^3 of total dust is recommended for substances for which no specific TLVs have been assigned.

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

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORS: If the airborne concentration exceeds the ACGIH recommended TLV, an approved dust mask should be worn.

PROTECTIVE GLOVES: Wear protective gloves to prevent skin drying. Use protective barrier cream before handling product Wash hand and other exposed skin with mild soap.

EYE PROTECTION: Wear eye/face protection. Wear safety glasses with side shields or goggles

OTHER PROTECTION: Wear suitable protective cloths. Work cloths should not be allowed out of the working place.

HYGENIC WORK ROUTINES: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Appearance and Odour: White powder, no odour

pH: N/A

Boiling Point: N/A

Solubility: Insoluble in water.

Freezing Point: N/A

Tapped Density: 0.08 – 0.12 g/ml @ 20 °C

Viscosity: N/A

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Thermal decomposition above 300 °C

Incompatibility with Other Materials: None known (None expected).

Hazardous Decomposition Products: Carbon dioxide (CO₂), carbon monoxide (CO),

formaldehyde, organic compounds of decomposition.

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

SECTION 12 ECOLOGICAL INFORMATION

Eco-toxicity: Not available but this material is not expected to be toxic to aquatic organisms.

Products of Biodegradation: Possibly hazardous degradation products are not likely.

Toxicity of the Products of Biodegradation: The product as such and its products of degradation are not toxic.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Waste must be disposed of in accordance with federal, state and local environmental control regulations. Same consideration should be given to container and packaging

SECTION 14 TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material

DOT Identification Number: Not applicable

Special Provisions for Transport: Not applicable

SECTION 15 REGULATORY INFORMATION

Not available

SECTION 16 OTHER INFORMATION

References: MSDS for silicon dioxide and methylated silica

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