

SAFETY DATA SHEET PRODUCT: AQM H-SiO_x

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifiers

Product Name : AQM H-SiO_x
Synonyms : Hydrogen silsesquioxane polymer resin (HSQ)
CAS-No. : 137125-44-1

Relevant identified uses of the substance or mixtures and uses advised against

Identified Uses : Laboratory chemicals, Synthesis of substances, used in photolithography and e-beam lithography

Details of the supplier of the safety data sheet

Company : Applied Quantum Materials Inc.
B211, 2011 – 94 Street
Edmonton, Alberta, T6N 1H1
Telephone : +1 (587) 635-2060

Emergency telephone number

Emergency phone number : +1 (780) 953-4428

2. HAZARDS AND IDENTIFICATION COMPOSITION/INFORMATION ON INGREDIENTS

Classification of the substance or mixture

Considered non-hazardous according to WHMIS 2015 (GHS) therefore not regulated by the Hazardous Products Regulations (HPR) (SOR/2015-17).

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Composition : Consists of polymeric SiO_x,
Synonyms : Silsesquioxane-based electron beam photoresist

4. FIRST AID MEASURES

General advice : Consult a physician. Show this SDS sheet to the doctor in attendance. Move out of the dangerous area.
Inhalation : May be harmful if inhaled. Remove to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact : May cause skin irritation. Wash area thoroughly with soap and plenty of water. Remove contaminated clothing. Consult a physician.
Eye contact : May cause irritation. Flush area thoroughly with water for at least 15 minutes. Consult a physician.
Ingestion : May be harmful if swallowed. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Any means suitable for extinguishing surrounding fire.
Special hazards : Not applicable
Advice for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Use personal protective equipment. Avoid contact with skin and eyes.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Do not let product enter the drains.
Methods for clean up	:	Shovel or sweep up. Shovel into a suitable container for disposal. Avoid dust formation. Dispose of as normal trade waste in compliance with local and national regulations.

7. HANDLING AND STORAGE

Handling	:	Avoid contact with skin and eyes. Avoid dust formation. Do not breathe in dust. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Storage	:	Keep container tightly closed (hygroscopic). Store either under inert atmosphere or under vacuum. No known incompatibilities.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters/exposure limits	:	Not available
Personal protection equipment	:	Safety glasses, gloves, lab coat, long pants
Engineering controls	:	Avoid contact with skin and eyes. Avoid dust formation. Use in a well-ventilated area or with an approved/certified vapor respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Powder
Colour	:	White/off-white
Odour	:	None
pH	:	Not applicable
Boiling point	:	Not applicable
Melting point	:	Not determined
Flash point	:	Not determined
Evaporation Rate	:	Not determined
Flammability	:	Not flammable
Explosive properties	:	Not applicable
Explosion limits	:	Not applicable
Vapour pressure	:	Negligible
Relative density	:	Not applicable
Solubility	:	No data available
Partition coefficient- n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available

10. STABILITY AND REACTIVITY

Reactivity	:	Reacts with water.
Chemical stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	Keep containers dry and tightly closed to avoid moisture absorption and contamination (hygroscopic).
Incompatible materials	:	None known.

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Hazardous decomposition products: No data available

11. TOXICOLOGICAL AND REACTIVITY

Routes of Exposure	:	Inhalation, ingestion, skin, and eye contact.
Symptoms	:	Irritation of the skin or eyes.
Acute toxicity	:	No data available
Sensitization	:	No data available
Chronic toxicity	:	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity	:	No data available
Persistence/degradability	:	Stable
Bioaccumulation potential	:	No data available
Mobility in soil	:	No data available.
Other adverse effects	:	None

13. DISPOSAL CONSIDERATION

Contaminated packaging	:	In accordance with local and national regulations.
Waste from residues/unused products	:	In accordance with local and national regulations.

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

WHMIS Classification	:	Not WHMIS controlled.
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16. OTHER INFORMATION

The information provided in this Safety Data Sheet is accurate to the best of our knowledge 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, since the conditions of the abovementioned operations are beyond our control. The information relates only to the designated material and may not be valid for such material used in the combination with any other materials or in any processes unless specified in the text.

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