



Material Safety Data Sheet QSi 430B

1. Chemical Product and Company Identification

Quantum Silicones(ACC Silicones Ltd)
8021 Reycan Road
Richmond, VA 23237

Phone (804)271-9010

Prepared by: Philip McDermott
Date Prepared: 10/1/09
Chemical Family: Mixture
Generic Description: Silicone Potting Elastomer
Physical Form: Viscous Liquid

NFPA Profile Health **2** Flammability **1** Reactivity **0**

2. OSHA Hazardous Ingredients

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
22984-54-9	1-5	Methyltris(methylethylketoximo)silane
78-10-4	1-5	Ethyl Silicate

The above component is hazardous as defined in 29 CFR 1910.1200

3. Hazards Identification

Acute effects

Eye: Direct contact may cause mild irritation
Skin: May cause moderate irritation
Inhalation: Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness.
Oral: Low ingestion hazard in normal use

Prolonged/Repeated Exposure Effects

Skin: Repeated or Prolonged skin contact may cause allergic skin reaction
Inhalation: Overexposure by inhalation may injure the following organs: Blood. Liver.
Oral: Repeated ingestion or swallowing large amounts may injure internally

Medical Conditions Aggravated by Exposure

None Known

4. First Aid Measures

Eye: Immediately flush with water for 15 minutes
Skin: Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop or persist
Inhalation: Remove to fresh air. Get medical attention if ill effects persist
Oral: Get medical attention

Comments: Treat according to the person conditions, symptoms and specifics of exposure

5. Fire Fighting Measures

Flash point >200F closed cup
Auto Ignition Temp: Not determined

Flammability Limits in Air:
Upper limit Not Determined
Lower Limit Not Determined

Extinguishing Media – All standard firefighting media. On large fires, use dry chemical, foam or water spray. On small fires use carbon dioxide(CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

Firefighting Procedure - NIOSH/MSHA approved self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals. Determine the need to evacuate or isolate the area depending on your local emergency plan. Use water spray to keep fire exposed containers cool.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Nitrogen Oxides. Metal Oxides. Formaldehyde. Silicone Dioxide. Carbon oxides and traces of incompletely burned carbon compounds.

6. Accidental Release Measures

Containment/Clean-up

Determine the need to evacuate based on you local emergency plan. Ensure all personal protective equipment is utilized (see section 5 and 8). For large spills, provide diking or other measure to contain material. Store recovered material in an appropriate container. Clean up non-recoverable material with a suitable absorbent. Clean area thoroughly as silicone materials are a known slip hazard. Disposal of all cleaning materials, including absorbent and any non-usable materials should be done in accordance with Federal, State and Local laws.

7. Handling and Storage

Keep container closed when not in use. Avoid eye contact. Avoid skin contact. Avoid breathing vapors. Store away from heat, sources of ignition, oxidizers and incompatibles. Product evolves methylethylketoxime when exposed to water or humid air. Provide ventilation during sue to control methylethylketoxime within exposure guidelines or use respiratory protection.

8. Exposure Controls/Personal Protection

Component exposure limits-

<u>CAS Number</u>	<u>Component Name</u>	<u>Exposure Limits</u>
22984-54-9	Methyltris(methylethylketoximo)silane	See methylethylketoxime comments

Methyl ethyl ketoxime is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within the following guidelines: TWA: 3ppm, STEL: 10ppm; AIHA WEEL TWA: 10ppm

78-10-4	Ethyl Silicate	OSHA PEL(final rule): TWA 100 ppm, 850mg/m3 ACGIH TLV: TWA 10 ppm
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Engineering Controls-

- Eye wash station
- Safety shower
- General ventilation recommended
- Local ventilation recommended

Personal Protective equipment for routine use:

Eyes	Use proper protection – safety glasses at minimum
Skin	Washing after use is recommended
Gloves	Recommended. Suitable gloves include: Butyl rubber, Nitrile rubber, Natural rubber
Inhalation	Use respiratory protection unless adequate ventilation is provided or air sampling data shows exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable respirator: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above the recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective equipment for spills:

Eyes	Use full face respirator
Skin	Wash at mealtime and at the end of the shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.
Inhalation/Respirator	Respiratory protection is recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Precautionary Measures Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally.

Note; These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require additional precautions.

9. Physical and Chemical Properties

Physical Form:	Viscous liquid
Color	Gray
Specific Gravity	1.70
Vapor Pressure	Not determined
Vapor Density	Not determined
Freezing point	Not determined
Melting point	N Not determined
Boiling point	Not determined
pH	Not Determined
Odor	Slight
Solubility in water	Negligible

10. Stability and Reactivity

Chemical Stability	Stable
Hazardous Polymerization	Will not occur
Conditions to Avoid	None
Materials to avoid	Strong oxidizers may cause a reaction

Hazardous Thermal Decomposition/Combustion Products

Carbon Monoxide
Carbon Dioxide
Silicone Dioxide
Formaldehyde

11. Toxicological Information

Special Hazard Information on material and components

Component Toxicology Information

Methyl Ethyl Ketoxime (MEKO) is formed upon contact with water or humid air. Male rodents exposed to MEKO vapor throughout their lifetimes developed liver cancer. Additional testing is planned by the MEKO supplier to determine any relevance to humans. Until more data is known, exposure levels should be maintained as low as possible.

Special Hazard Information on Components

Sensitizers

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>	
22984-54-9	1-5	Methyltris(methylethylketoximo)silane	Possible skin sensitizer

12. Ecological Information

Ecotoxicological Information – Complete information is not yet available
Chemical Fate Information - Complete information is not yet available

13. Disposal Considerations

RCRA Hazard Class (40CFR 261)
Material as received is non-hazardous with regard to disposal

Disposal should be made in accordance with Federal, State and Local regulations.

14. Transportation Information

DOT Road Shipment (49CFR 172.101) Not subject to DOT
Ocean Shipment (IMDG) Not subject to IMDG code
Air Shipment (IATA) Not subject to IATA regulations

15. Regulatory Information

Contents of this MSDS comply with OSHA 29 CFR 1910.1200

TSCA – All chemical components of this material are included on or exempt from listing on the TSCA inventory of Chemical Substances

SARA Regulations

SARA 302	None
SARA 304	None
SARA 312	
Acute	Yes
Chronic	Yes
Fire	No
Pressure	No
Reactive	No

SARA 313	None
California Prop 65	None

HMIS	Flammability	1	Reactivity	0	Health	2
NFPA	Flammability	1	Reactivity	0	Health	2

16. Other Information

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.