



## Material Safety Data Sheet QSi 960

### 1. Chemical Product and Company Identification

Quantum Silicones  
8021 Reycan Road  
Richmond, VA 23237

Phone (804)271-9010

Prepared by: Philip McDermott  
Date Prepared: 9/01/05  
Chemical Family: Mixture  
Generic Description: Industrial Silicone Elastomer  
Physical Form: Viscous Liquid

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

### 2. OSHA Hazardous Ingredients

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
11099-06-2	0.5-3	Ethyl polysilicate

The above components are hazardous as defined in 29 CFR 1910.1200

### 3. Hazards Identification

#### Acute effects

Eye: Direct contact may cause temporary redness and discomfort  
Skin: None  
Inhalation: None  
Oral: Low ingestion hazard in normal use

#### Prolonged/Repeated Exposure Effects

Skin: No known applicable information  
Inhalation: No known applicable information  
Oral: No known applicable information

#### Medical Conditions Aggravated by Exposure

No known applicable information

#### Carcinogenicity

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC or OSHA.

### 4. First Aid Measures

Eye: Immediately flush with water for 10 minutes  
Skin: No first aid should be needed  
Inhalation: No first aid should be needed  
Oral: No first aid should be needed.

## 5. Fire Fighting Measures

Flash point >212F (100C)  
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(CO<sub>2</sub>), 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

Use with adequate ventilation. Product generates ethyl alcohol when exposed to moisture, water or humid air. Provide adequate ventilation to control ethyl alcohol exposure within exposure guidelines. Keep container closed when not in use. Avoid eye contact. Store away from heat, sources of ignition, oxidizers and incompatibles.

## 8. Exposure Controls/Personal Protection

Component exposure limits-

CAS Number	Component Name	Exposure Limits
11099-06-2	Ethyl Polysilicate	OSHA PEL(final rule): TWA 100 ppm, 850mg/m <sup>3</sup> ACGIH TLV: TWA 10 ppm

Engineering Controls-  
Eye wash station  
Safety shower  
General ventilation recommended

*Personal Protective equipment for routine use:*

Eyes	Use proper protection – safety glasses at minimum
Skin	Washing after use is recommended
Gloves	Recommended
Inhalation	No respiratory protection is required

*Personal Protective equipment for spills:*

Eyes	Safety glasses
Skin	Washing after exposure
Inhalation/Respirator	None should be required

Precautionary Measures            Use safety glasses. Use reasonable care.

*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	Red
Specific Gravity	1.42
Vapor Pressure	Negligible
Vapor Density	Negligible
Freezing point	NA
Melting point	NA
Boiling point	>260C(>500F)
pH	Not Determined
Odor	Slight
Solubility in water	Negligible
VOC excluding H2O & exempts (g/L)	<15

## 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 - No known application information

## 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 311, 312	None
SARA 313	None
California Prop 65	None

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

#### 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.