# Material Safety Data Sheet
# QSil 557B

## 1. Chemical Product and Company Identification

Quantum Silicones
8021 Reycan Road
Richmond, VA 23237

Phone (804)271-9010

| | |
|---|---|
| Prepared by: | Philip McDermott |
| Date Prepared: | 4/21/06 |
| Chemical Family | Mixture |
| Generic Description | Industrial Electronic Potting Material |
| Physical Form | Viscous Liquid |

| | | | | | | |
|---|---|---|---|---|---|---|
| NFPA Profile | Health | **0** | Flammability | **0** | Reactivity | **0** |

## 2. OSHA Hazardous Ingredients

None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard

## 3. Hazards Identification

Acute effects

| | |
|---|---|
| Eye: | Direct contact may cause mild irritation |
| Skin: | None |
| Inhalation: | None |
| Oral: | Low ingestion hazard in normal use |

Prolonged/Repeated Exposure Effects

| | |
|---|---|
| Skin: | Repeated or Prolonged exposure may cause irritation |
| Inhalation: | None Known |
| Oral: | None Known |

Medical Conditions Aggravated by Exposure
None Known

Carcinogenicity
This product or one of it's 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($CO_2$), 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. Store away from heat, sources of ignition, oxidizers and incompatibles.

## 8. Exposure Controls/Personal Protection

Component exposure limits- There are no components with workplace exposure limits.

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 | Black |
| Specific Gravity | 1.24 |
| Vapor Pressure | Negligible |
| Vapor Density | Negligible |
| Freezing point | NA |
| Melting point | NA |
| Boiling point | >260C(>500F) |
| pH | Not Determined |
| Odor | Odorless |
| Solubility in water | Negligible |

## 10. Stability and Reactivity

| | |
|---|---|
| Chemical Stability | Stable |
| Hazardous Polymerization | Will not occur |
| Conditions to Avoid | None |
| Materials to avoid | Strong Acids, Bases and Oxidizers can cause hydrogen evolution |

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 ionfoamtion

## 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 | 0 | Reactivity | 0 | Health | 0 |
| NFPA | Flammability | 0 | Reactivity | 0 | Health | 0 |

**16. Other Inforamtion**

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.