1. Product and Company Identification

Product:
- **Product Name:** SS-988 Silicone Optical Couplant
- **Intended Use:** Optics

Manufacturer/Supplier:
- Silicone Solutions
  338 Remington Road
  Cuyahoga Falls, OH
- **Preparer:** Casey Linx
- **Chemical Family:** Silicone Rubber
- **Formula:** PhenylSiO₂CH₃
- **Emergency Telephone Number:** 330-920-3125

2. Hazards Identification

Hazard Classification:
This material’s composition is minimally hazardous according to regulatory guidelines. *See Section 15 for hazard ratings.*

Label: None required.

Hazard Statements:
- **Physical:** None known
- **Health:**
  - **Ingestion:** None known.
  - **Skin Contact:** Manufacturing experience has shown that skin hazard is not applicable in this form.
  - **Inhalation:** None known.
  - **Eye Contact:** May cause mild eye irritation.
  - **Medical Conditions Aggravated:** None known.
  - **Subchronic (target organ) Effects:** None known.
  - **Chronic Effects/Carcinogenity:** This product or one of its ingredients that is present in 0.1% or more is NOT listed or is suspected as a carcinogen by NTP, IARC, or OSHA.

Precautionary Statements:
- **General:** Obtain special instructions before use, and do not handle until all safety precautions have been read and understood.

Other Hazard Information:
- This product contains methylpolysiloxanes, which can generate formaldehyde upon exposure above 300 degrees centigrade in atmospheres that contain oxygen. Formaldehyde is a skin, eye, and throat irritant.

3. Composition/Information on Ingredients

Chemical Characterization:
- **Formula:** SiO₂CH₃
Composition and Information on Ingredients: Non-hazardous components unless otherwise specified.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Approximate % Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenylmethylpolysiloxane</td>
<td>63148-52-7</td>
<td>19-94</td>
</tr>
<tr>
<td>Modified Silicon Dioxide</td>
<td>68611-44-9</td>
<td>2-20</td>
</tr>
</tbody>
</table>

4. First Aid Measures

General Information:
Ingestion: None known.
Skin: Wash with soap and water.
Inhalation: None known.
In case of eye contact: Flush with water for fifteen minutes and get medical attention.

Note to Physician: None known.

5. Firefighting Measures

Flammability Properties:
Flash Point: > 315°C or 600°F
Method: COC
Ignition Temperature: Unknown
Flammable Limits in Air-Upper % : NA
Flammability Limits in Air-Lower % : NA
Sensitivity to Mechanical Impact: No
Sensitivity to Static Discharge: No

Extinguishing Media: All standard firefighting material.

Special Firefighting Procedures: None known.

6. Accidental Release Measures

Action to be taken if material is released or spilled: Scrape up and place in an inert material for disposal. See Section 8 for protective equipment upon exposure and Section 7 for information on safe handling.

7. Handling and Storage

Precautions to be taken during handling and storage: None required.

8. Exposure Controls/Personal Protection

Control Parameters:
Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>ACGIH TWA</th>
<th>TLV STEL</th>
<th>OSHA TWA</th>
<th>PEL STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenylmethylpolysiloxane</td>
<td>63148-52-7</td>
<td>NE</td>
<td>NE</td>
<td>NF</td>
<td>NE</td>
</tr>
<tr>
<td>Modified Silicon Dioxide</td>
<td>68611-44-9</td>
<td>6 mg/m³</td>
<td>10 mg/m³</td>
<td>6 mg/m³</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Note: All solid powders are fully encapsulated in the cured and uncured product and are not hazardous in this form.

Exposure Controls and Protection:
9. Physical and Chemical Properties

Information on basic physical and chemical properties:
- Boiling Point: NA
- Vapor Pressure: NA
- Vapor Density: NA
- Freezing Point: NA
- Melting Point: NA
- Physical State: Paste.
- Odor: Odorless.
- % Volatile by Volume: < 1
- Evaporation Rate: < 1
- Specific Gravity: 1.02
- Density (kg/m\(^3\)): 1020
- Acid/Alkalinity: Unknown.
- pH: NA
- VOC: NT
- Solubility in Water: Insoluble.

10. Stability and Reactivity

Chemical Stability:
- Stability: Stable.

Reactivity:
- Hazardous Polymerization: Will not occur.
- Hazardous Thermal Decomposition/Combustion Products:
  - Carbon Dioxide
  - Carbon Monoxide
  - Silicon Dioxide
  - Formaldehyde
- Conditions to Avoid: None known.

11. Toxicological Information

Product Information on Toxicological Effects:
- Acute Dermal LD50: Unknown.
- Acute Inhalation LC50: Unknown.
- Ames Test: Unknown.

12. Ecological Information

Ecotoxicity:
- Ecotoxicological Information: Unknown.
- Chemical Fate Information: Unknown.
13. Disposal Considerations

Disposal Method: Disposal should be made in accordance with federal, state, and local considerations.

14. Transport Information

General:
- DOT Shipping Name: NA
- DOT Hazard Class: Not DOT regulated.
- DOT Label: NA
- UN/NA Label: NA
- Placards: None.
- IATA: NA
- IMO IMDG-code: NA
- European Class:
  - RID (OCTI): NA
  - ADR (ECE): NA
  - RAR (IATA): NA

15. Regulatory Information

Regulatory Status and Applicable Laws and Regulations:
- SARA Section 302: None found.
- SARA (311, 312) Hazard Class: None.
- SARA (313) Chemicals: None.
- CPSC Classification: NA
- WHMIS Hazard Class: None.
- Export Schedule:
  - B/HTSUS: 3910.00 Silicones in primary form.
  - ECCN: EAR99
- California Proposition 65: None.
- TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

Hazard Rating Systems:
- HMIS (scale 0-4):
  - Health = 0
  - Flammability = 0
  - Reactivity = 0
- NFPA (scale 0-4):
  - Health = 0
  - Flammability = 0
  - Reactivity = 0

16. Other Information

Revision Date: 06/20/2016
SDS Preparer: Casey Linx

This product or its components are on the European inventory (EINECS) of existing commercial chemicals. This data is offered in good faith as typical values and not as a product satisfaction. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

Abbreviations and Acronyms:
- OSHA: Occupational Safety and Health Administration
- ACGIH: American Conference of Governmental Industrial Hygienists
LD50: Lethal Dose, 50 percent
LC50: Lethal Concentration, 50 percent
DOT: US Department of Transportation
IATA: International Air Transport Association
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)