Graphene Thermal Conductive Grease (silicone-based)

Table of contents

1. Product and Company Identification
2. Composition / Information on Ingredients / Chemical and Physical Properties
3. Hazards Identification
4. First Aid Measures
5. Firefighting Measures
6. Control Measures
7. Handling and Storage
8. Stability and Reactivity
9. Ecological Information
10. Disposal Considerations
1. Product and Company Identification

**Product Name:** Graphene Thermal Conductive Grease GL-T10S

**Synonyms:** Thermal Conductive Grease, Compound Thermal Grease

Silicone Thermal Compound

**Contacting Information:**

Manufacturer: GRAPHENELAB Ltd
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[www.i-graphenelab.com](http://www.i-graphenelab.com)
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2. Composition/Information on Ingredients / Chemical and Physical Properties

<table>
<thead>
<tr>
<th>Base</th>
<th>Silicon Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filler</td>
<td>Pure unoxidized graphene nanoplatelets</td>
</tr>
</tbody>
</table>

**Chemical and Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Viscosity</td>
<td>3500 cps</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.7 g/sm³</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>6.8 W/m·K</td>
</tr>
<tr>
<td>Thermal Resistance</td>
<td>0.007 C-in²/W</td>
</tr>
<tr>
<td>Measured Thickness</td>
<td>0.03 mm</td>
</tr>
<tr>
<td>Dielectric Constant</td>
<td>12.5 at 1 MHz</td>
</tr>
<tr>
<td>Volatile Matter</td>
<td>0.21 % (120 C/ 120 hrs)</td>
</tr>
<tr>
<td>Temperature Stability</td>
<td>-50/ +200 °C</td>
</tr>
</tbody>
</table>

3. Hazards Identification

Potential Acute Health Effects: Not available.
Potential Chronic Health Effects: Not available.
CARCINOGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

4. First Aid Measures

Eyes: Check for and remove any contact lenses. In case of contact, flush eyes with plenty of water. Get medical attention if irritation occurs.

Skin: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation: Not available.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.
5. Fire Fighting Measures

It is difficult to combust.  
Special Fire Fighting Procedures: Avoid breathing vapors. Use breathing apparatus in confined areas. Cool exposed containers with water spray.

6. Control Measures

Respiration Protection: None Normally Needed  
Ventilation Type: General adequate. Use local mechanical to insure TLV's not surpassed where applicable.  
Skin Protection: Chemically Resistance Desirable  
Eye Protection: Goggles or Face shield Desirable  
Other Protective Measures: None normally needed

7. Handling and Storage

This material is stable at room temperature and does not pose a risk of combustion.  
Steps to Take in Case of Spill: Add absorbent to spill area. Keep silicone products out of sewers and waterways. Advise authorities if they do enter. Waste Disposal Method: Dispose of at appropriate waste facility in accordance with regulations. Precautions in Storage: Keep containers closed when not in use. Do not handle near heat, flames, sparks. Do not weld or heat empty containers.

8. Stability and Reactivity Stability

The product is stable.  
Incompatibility: Keep Away From Strong Oxidizers  
Polymerization: Will not occur.

9. Ecological Information

Ecotoxicity: Not available.  
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic. Special Remarks on the Products of Biodegradation: Not available.

10. Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulation.  
The information contained herein is based on data considered accurate. However, no warranty, expressed or implied, is given regarding the accuracy of this data or the result to be obtained from the use thereof.