**SECTION 1. IDENTIFICATION**

**PRODUCT (TRADE) NAME:** Thermcoat SL (Silicone Lacquer Varnish)

**CHEMICAL FAMILY:** Silicone Resin

**SUPPLIER:** OMEGA Engineering Inc.

**ADDRESS:** P. O. Box 4047
Stamford, CT 06907

**TELEPHONE:** (203) 359-1660

---

**SECTION 2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**EYE:** Direct contact may cause severe irritation. Vapor may cause eye irritation.

**SKIN:** May cause moderate irritation.

**INHALATION:** Vapor may irritate nose and throat. Overexposure by inhalation may cause drowsiness, dizziness, confusion or loss of coordination.

**ORAL:** Aspiration of liquid while vomiting may injure lungs seriously.

**PROLONGED/REPEATED EXPOSURE EFFECTS**

**SKIN:** Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis. Repeated skin contact may cause allergic skin reaction. Overexposure may injure internally if absorbed.

**INHALATION:** Overexposure by inhalation may injure the following organ(s): Nervous system. Liver. Kidneys. Lungs.

**ORAL:** Repeated ingestion or swallowing large amounts may injure internally.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

No known applicable information.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>COMPONENT:</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION (% by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>30.0 - 60.0</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>10.0 - 30.0</td>
</tr>
<tr>
<td>Heavy aromatic petroleum solvent naphtha</td>
<td>64742-94-5</td>
<td>3.0 - 7.0</td>
</tr>
<tr>
<td>Linseed Oil</td>
<td>8001-26-1</td>
<td>3.0</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>&lt;=0.4</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1.0</td>
</tr>
</tbody>
</table>

The above components are hazardous as defined in 29 CFR 1910.1200.

---

**SECTION 15. REGULATORY INFORMATION**


**TSCA Status:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**EPA SARA TITLE III CHEMICAL LISTINGS:**

- Section 302 Extremely Hazardous Substances (40 CFR 350):
  - None
- Section 304 CERCLA Hazardous Substances (40 CFR 302):
  - None

**SUPPLEMENTAL STATE COMPLIANCE INFORMATION**

**California - Warning:** This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>State</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>64742-94-5</td>
<td>3.0 - 7.0</td>
<td>Heavy aromatic petroleum solvent naphtha</td>
</tr>
<tr>
<td></td>
<td>8001-26-1</td>
<td>3.0</td>
<td>Linseed Oil</td>
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<tr>
<td></td>
<td>100-41-4</td>
<td>10.0 - 30.0</td>
<td>Ethylbenzene</td>
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</tbody>
</table>

**New Jersey**

<table>
<thead>
<tr>
<th>State</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>68037-66-1</td>
<td>40.0 - 70.0</td>
<td>Dimethyl, methyl, phenyl, phenylmethyl silicone resin</td>
</tr>
<tr>
<td></td>
<td>1330-20-7</td>
<td>30.0 - 60.0</td>
<td>Xylene</td>
</tr>
<tr>
<td></td>
<td>64742-94-5</td>
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<tr>
<td></td>
<td>8001-26-1</td>
<td>3.0</td>
<td>Linseed oil</td>
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</table>

**Pennsylvania**

<table>
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<tr>
<th>State</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
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<td></td>
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<td>40.0 - 70.0</td>
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</tbody>
</table>

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SECTION 4. FIRST AID MEASURES

EYE: Immediately flush with water for 15 minutes. Get medical attention.

SKIN: Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop or persists.

INHALATION: Remove to fresh air. Get medical attention if ill effects persist.

ORAL: Get immediate medical attention. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Treat according to person’s condition and specifics of exposure.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: 77°F/25°C (Pensky-Martens Closed Cup)

AUTOIGNITION TEMPERATURE: Not Determined

FLAMMABILITY LIMITS IN AIR: Not Determined

EXTINGUISHING 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.

FIRE FIGHTING MEASURES: Self-contained breathing apparatus and protective clothing should be worn fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors we heavier than air and may travel to a source of ignition and flash back. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.

SECTION 13. DISPOSAL INFORMATION

RCRA HAZARD CLASS (40 CFR 261)
When a decision is made to discard this material, as received, is it is classified as a hazardous waste? Yes

Characteristic Waste: Ignitable: D001
TCLP: D018

State or local laws may impose additional regulatory requirements regarding disposal. Call OMEGA Engineering, Inc, (203) 359-1660 if additional information is required.

SECTION 14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)
PROPER SHIPPING NAME: Flammable Liquids, n.o.s.
HAZARD TECHNICAL NAME: Xylene/Ethylbenzene
HAZARD CLASS: 3
UN/NA NUMBER: UN 1993
PACKING GROUP: III
HAZARD LABEL(S): Flammable Liquid

OCEAN SHIPMENT (IMDG)
PROPER SHIPPING NAME: Flammable Liquid, n.o.s.
HAZARD TECHNICAL NAME: Xylene/Ethylbenzene
HAZARD CLASS: 3
UN/NA NUMBER: UN 1993
PACKING GROUP: III
HAZARD LABEL(S): Flammable Liquid

AIR SHIPMENT (IATA)
PROPER SHIPPING NAME: Flammable Liquid, n.o.s.
HAZARD TECHNICAL NAME: Xylene/Ethylbenzene
HAZARD CLASS: 3
UN/NA NUMBER: UN 1993
PACKING GROUP: III
HAZARD LABEL(S): Flammable Liquid

Call OMEGA Engineering, Inc., (203) 359-1660 if additional information is required.
SECTION 6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT/ CLEAN-UP:
Remove possible ignition sources. Determine whether to evacuate or isolate the area, according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since some spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal law and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

NOTE:
See Section 8 for Personal Protective Equipment for Spills. Call OMEGA Engineering, Inc., (203) 359-1660 (ref P/N 997R), if additional information is required.

SECTION 7. HANDLING AND STORAGE

HANDLING AND STORAGE:
Use with adequate ventilation. Traces of benzene (carcinogen) may form if heated in air above 300°F (149°C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. Avoid eye exposure. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Hazardous Polymerization: Hazardous Polymerization will not occur.
Conditions to Avoid: None.
Materials to Avoid: Oxidizing material can cause a reaction.
Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Metal oxides. Silicon dioxide. Formaldehyde.

SECTION 11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Components
Carcinogens

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt %</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>91-20-3</td>
<td>&lt;=0.4</td>
<td>Naphthalene</td>
</tr>
</tbody>
</table>

Teratogens

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt %</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>10.0 - 30.0</td>
<td>Ethylbenzene</td>
</tr>
</tbody>
</table>

Mutagens

<table>
<thead>
<tr>
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<th>Wt %</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>10.0 - 30.0</td>
<td>Ethylbenzene</td>
</tr>
</tbody>
</table>

Sensitizers

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt %</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8001-26-1</td>
<td>3.0 - 7.0</td>
<td>Linseed Oil</td>
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</tbody>
</table>

Sensitizers

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</tr>
</tbody>
</table>


SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION: Complete information is not yet available.
ENVIRONMENTAL EFFECTS: Complete information is not yet available.
FATES AND EFFECTS IN WASTE WATER TREATMENT PLANTS: Complete Information is not yet available.
Ecotoxicity Classification Criteria

<table>
<thead>
<tr>
<th>Hazard Parameters (LC50 or EC50)</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;=1</td>
<td>1</td>
<td>1 and &lt;=100</td>
<td>&gt;100</td>
</tr>
<tr>
<td>Acute Aquatic Toxicity (mg/L)</td>
<td>&lt;=100</td>
<td>&gt;100 and &lt;=2000</td>
<td>&gt;2000</td>
</tr>
<tr>
<td>Acute Terrestrial Toxicity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993. This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS Number | Component Name | Exposure Limits |
---|---|---|
1330-20-7 | Xylene | Observe xylene limits. OSHA PEL (final rule) and ACGIH TLV: TWA 100 ppm, STEL 150 ppm |
100-41-4 | Ethylbenzene | OSHA PEL (final rule): TWA 100 ppm, 435 mg/m3. ACGIH TLV: TWA 100 ppm, STEL 125 ppm |
64742-94-5 | Heavy aromatic petroleum solvent naphtha | Observe petroleum distillates limits. OSHA PEL (final rule): TWA 400 ppm |
91-20-3 | Naphthalene | OSHA PEL (final rule): TWA 10 ppm and ACGIH TLV-skin: TWA 10 ppm, STEL 15 ppm |

ENGINEERING CONTROLS
LOCAL VENTILATION: Recommended.

GENERAL VENTILATION: Recommended.

PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING
EYES: Use chemical worker’s goggles.
SKIN: Wash at mealtime and end of 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.

SUITABLE GLOVES: Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personal protective manufacturer for selection of appropriate compatible materials.

INHALATION: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH 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 recommended limits 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 end of 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/ SUITABLE: RESPIRATOR: Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Liquid
COLOR: Brown
ODOR: Solvent Odor.
SPECIFIC GRAVITY @ 25°C: 1.002
VISCOSITY: 105 cSt
FREEZING/MELTING POINT: Not Determined.
BOILING POINT: >130°C/266°F
VAPOR PRESSURE @25°C: Not Determined.
VAPOR DENSITY: Not Determined.
SOLUBILITY IN WATER: Not Determined.
pH: Not Determined.
VOLATILE CONTENT: Not Determined.
FLASH POINT: 77°F/25°C (Pensky-Martens Closed Cup)
AUTOIGNITION TEMPERATURE: Not Determined.
FLAMMABILITY LIMITS IN AIR: Not Determined.