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8001-26-1

MSDS-0102 Supersedes: 03/25/07

Thermcoat SL Rev. Date 01/27/09

SECTION 15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200. 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 355): None

Section 304 CERCLA Hazardous Substances (40 CFR 302):

Cas Number	Wt %	Component Name
1330-20-7	35.0	Xylene
100-41-4	10.9	Ethylbenzene
91-20-3	<=0.46	Naphthalene
108-88-3	0.15	Toluene

Section 311/312 Hazard Class (40 CFR 370): Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactive: No Section 313 Toxic Chemicals (40 CFR 372):

Cas Number	<u>Wt %</u>	Component Name
1330-20-7	35.0	Xylene
100-41-4	10.9	Ethylbenzene
SUPPLEMENTAL STAT	TE COMPLIAN	NCE INFORMATION

3.0 to 7.0

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 heing known to cause cancer high defects or other reproductive harm

•	·	cts or other reproduct	
Cas Number	<u>Wt %</u>	Component Name	
100-41-4	10.0 - 30.0	Ethylbenzene	Carcinogenic
91-20-3	<=0.4	Naphthalene	Carcinogenic
108-88-3	<=1.0	Toulene	Developmental toxin
Massachusetts			
Cas Number	<u>Wt %</u>	Component Name	!
1330-20-7	30.0 to 60.0	Xylene	
100-41-4	10.0 to 30.0	Ethylbenzene	
New Jersey		-	
Cas Number	<u>Wt %</u>	Component Name	!
68037-66-1	40.0 to 70.0	Dimethyl, methyl, p	henyl, phenylmethyl silicone resin
1330-20-7	30.0 to 60.0	Xylene	
100-41-4	10.0 to 30.0	Ethylbenzene	
64742-94-5	3.0 - 7.0	Heavy aromatic pet	troleum solvent naphtha
8001-26-1	3.0 to 7.0	Linseed oil	
91-20-3	<=0.4	Naphthalene	
Pennsylvnia		•	
Cas Number	Wt %	Component Name	!
68037-66-1	40.0 to 70.0	Dimethyl, methyl, p	henyl, phenylmethyl silicone resin
1330-20-7	30.0 to 60.0	Xylene	
100-41-4	10.0 to 30.0	Ethylbenzene	
64742-94-5	3.0 to 7.0	•	troleum solvent naphtha

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Linseed oil

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MATERIAL SAFETY DATASHEET



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MSDS-0102 Thermcoat SL

Rev. Date 01/27/09 Supersedes: 03/25/07

SECTION 1. IDENTIFICATION

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

CHEMICAL FAMILY: Silocone 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.

Vapor may irritate nose and throat. Overexposure by inhalation may cause INHALATION:

drowsiness, dizziness, confusion or loss of coordination.

ORAL: Aspiration of liquid while vomiting may injure lungs seriously

PROLONGED/REPEATED EXPOSURE EFFECTS

Repeated or prolonged contact may cause defatting and drying of skin which SKIN:

> 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 potiential 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

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

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

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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 Vapors we heavier than air and may travel to a source EXPLOSION HAZARDS: Vapors we heavier than air and may travel to a source of ignition and flash back. Static electricity will

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.

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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: |||

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: |||

HAZARD LABEL(S): Flammable Liquid

Call OMEGA Engineering, Inc., (203) 359-1660 if additional information is required.

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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 eve 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:

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

CAS Number	<u>Wt %</u>	Component Name	
100-41-4	10.0 - 30.0	Ethylbenzene	IARC Group 2B - Possibly Carcinogenic
91-20-3	<=0.4	Naphthalene	to Humans. IARC Group 2B - Possibly Carcinogenic
		•	to Humans

NTP -Reasonably Anticipated to be a Human Carcinigen.

Teratogens CAS Number Wt % **Component Name** 100-41-4 10.0 - 30.0 Ethylbenzene

Evidence of teratogenicity (birth defects)

in laboratory animals.

CAS Number Wt % **Component Name** 10.0 - 30.0 100-41-4 Ethylbenzene

Genetically active in IN VIVO assay(s).

Sensitizers

Mutagens

CAS Number Wt % **Component Name**

8001-26-1 3.0 - 7.0Linseed Oil Possible skin sensitizer.

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

Hazard Parameters (LC50 or EC50) Hiah Medium I ow Acute Aquatic Toxicity (mg/L) <=1 >1 and <=100 >100 **Acute Terrestrial Toxicity** <=100 >100 and <= 2000 >2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179,

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.

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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 furthur 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 accessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in

judging the adequacy of existing engineering controls.

SUITABLE General and local exhaust ventilation is recommended to maintain RESPIRATOR:

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/ Respiratory protection recommended. Follow OSHA Respirator SUITABLE: Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved

RESPIRATOR: 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.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT'D)

PRECAUTIONARY MEASURES:

Avoid eye exposure. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Use

reasonable care.

COMMENTS: 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.

When heated to temperatures above 300°F (149°C) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer. Vapors irritate eyes, nose, and throat. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure

Limit for formaldehyde.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of siliconebased materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or call Call OMEGA Engineering, Inc., (203) 359-1660 (ref P/N 997R), if additional information is required.

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. Not Determined. VAPOR DENSITY: SOLUBILITY IN WATER: Not Determined. Not Determined. :Ha **VOLATILE CONTENT:** Not Determined.

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

AUTOIGNITION TEMPERATURE: Not Determined. FLAMMABILITY LIMITS IN AIR: Not Determined.

NOTE: The above information is not intended for use in preparing

product specifications.

Contact OMEGA Engineering, Inc., (203) 359-1660 (ref P/N 997R) before writing specifications.

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