

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product name: **THERMOSET® SC-400 HARDENER**  
Product Use/Class: **Encapsulant, Part B**

LORD Corporation  
111 LORD Drive  
Cary, NC 27511-7923 USA

Telephone: 814 868-3180  
Non-Transportation Emergency: 814 763-2345  
Chemtrec 24 Hr Transportation Emergency No.  
800 424-9300 (Outside Continental U.S. 703 527-3887)

**EFFECTIVE DATE:** 10/31/2024

**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATION:**

Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A  
Reproductive toxicity Category 2  
Specific target organ systemic toxicity (single exposure) Category 3  
Hazardous to the aquatic environment - acute hazard Category 2  
Hazardous to the aquatic environment - chronic hazard Category 2

**GHS LABEL ELEMENTS:****Symbol(s)****Signal Word**

WARNING

**Hazard statements**

Causes skin irritation.  
Causes serious eye irritation.  
Suspected of damaging fertility or the unborn child.  
May cause respiratory irritation.  
Toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves, eye protection, face protection.  
Use personal protective equipment as required.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.

**Response**

300001007625

Call a POISON CENTER or doctor, physician if you feel unwell.  
Specific treatment (see supplemental first aid instructions on this label).  
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice, attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Take off contaminated clothing and wash before reuse.  
Collect spillage.

#### Storage

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

#### Disposal:

Dispose of contents/container in accordance with waste/disposal laws and regulations of your country or particular locality.

#### Other hazards:

**This product contains component(s) which have the following warnings; however based on the GHS classification criteria of your country or locale, the product mixture may be outside the respective category(s).**

**Acute:** May be harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

**Chronic:** This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees F (150 C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and known cancer hazard. Workplace exposure to formaldehyde is regulated by OSHA Standard 29 CFR 1910.1048.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients above the threshold concentration

| Chemical Name                | CAS Number  | Range       |
|------------------------------|-------------|-------------|
| Siloxane                     | PROPRIETARY | 25 - 30 %   |
| Siloxanes                    | PROPRIETARY | 1 - 5 %     |
| Octamethylcyclotetrasiloxane | 556-67-2    | 0.1 - 0.9 % |

Any "PROPRIETARY" component(s) in the above table is considered trade secret, thus the specific chemical and its exact concentration is being withheld.

### 4. FIRST AID MEASURES

**FIRST AID - EYE CONTACT:** Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

**FIRST AID - SKIN CONTACT:** Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

**FIRST AID - INHALATION:** This material is not likely to be hazardous by inhalation. However, if exposed to excessive levels of vapor or mist, remove to fresh air, give oxygen if breathing is difficult, and get immediate medical attention.

**FIRST AID - INGESTION:** If swallowed, do not induce vomiting. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

### 5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Carbon Dioxide, Dry chemical, Foam, Water fog

**UNSUITABLE EXTINGUISHING MEDIA:** Not determined for this product.

**SPECIFIC HAZARDS POSSIBLY ARISING FROM THE CHEMICAL:** Keep container tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:** Wear full firefighting protective clothing, including self contained breathing apparatus. If water is used, fog nozzles are preferable.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** Avoid breathing vapors. Avoid contact.

**ENVIRONMENTAL PRECAUTIONS:** Do not contaminate bodies of water, waterways, or ditches, with chemical or used container.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Keep non-essential personnel away from spill area. Avoid breathing vapors. Notify appropriate authorities if necessary. Before attempting cleanup, refer to hazard caution information in other sections of this safety data sheet. Contain and remove with inert absorbent material. Avoid contact.

## 7. HANDLING AND STORAGE

**HANDLING:** Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation.

**STORAGE:** Avoid excessive heat. Avoid moisture contamination. Store only in well-ventilated areas. Keep container closed when not in use.

**INCOMPATIBILITY:** Strong acids, bases, and strong oxidizers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### COMPONENT EXPOSURE LIMIT

| Chemical Name                | ACGIH TLV-TWA | ACGIH TLV-STEL | OSHA PEL-TWA | OSHA PEL-CEILING | Skin           |
|------------------------------|---------------|----------------|--------------|------------------|----------------|
| Siloxane                     | N.E.          | N.E.           | N.E.         | N.E.             | Not applicable |
| Siloxanes                    | N.E.          | N.E.           | N.E.         | N.E.             | Not applicable |
| Octamethylcyclotetrasiloxane | N.E.          | N.E.           | N.E.         | N.E.             | Not applicable |

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

**ENGINEERING CONTROLS:** Provide adequate general ventilation where this product is used.

### PERSONAL PROTECTION MEASURES/EQUIPMENT:

**Respiratory protection:** Respiratory protection is not required under normal working conditions where adequate ventilation is present. Note: If the exposure limit for formaldehyde is exceeded, a formaldehyde-specific, formaldehyde/organic vapor combination, or airline respirator may be required.

**Skin protection:** Use neoprene, nitrile, or rubber gloves to prevent skin contact. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

**Eye protection:** Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

**Other protective equipment:** Remove and wash contaminated clothing before reuse.

**Hygienic practices:** Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical values, not to be used for specification purposes.

|                                               |                      |                               |                                      |
|-----------------------------------------------|----------------------|-------------------------------|--------------------------------------|
| <b>Odor:</b>                                  | Odorless             | <b>Vapor Pressure:</b>        | N.D.                                 |
| <b>Appearance:</b>                            | Amber                | <b>Vapor density:</b>         | Heavier than Air                     |
| <b>Physical state:</b>                        | Liquid               | <b>Lower explosion limit:</b> | N.A.                                 |
| <b>Flash point:</b>                           | ≥ 201 °F, 93 °C      | <b>Upper explosive limit:</b> | N.A.                                 |
|                                               | Setaflash Closed Cup |                               |                                      |
| <b>Boiling range:</b>                         | N.A.                 | <b>Evaporation rate:</b>      | Slower than n-butyl-acetate          |
| <b>Autoignition temperature:</b>              | N.D.                 | <b>Density:</b>               | 0.99 g/cm <sup>3</sup> (8.26 lb/gal) |
| <b>Decomposition temperature:</b>             | N.D.                 | <b>Viscosity, dynamic:</b>    | ≥500 mPa.s @ 25 °C                   |
| <b>Odor threshold:</b>                        | N.D.                 | <b>Viscosity, kinematic:</b>  | ≥505 mm <sup>2</sup> /s @ 25 °C      |
| <b>Solubility in H<sub>2</sub>O:</b>          | Insoluble            | <b>Volatile by weight:</b>    | 0.01 %                               |
| <b>pH:</b>                                    | N.A.                 | <b>Volatile by volume:</b>    | 0.01 %                               |
| <b>Freeze point:</b>                          | N.D.                 | <b>VOC Calculated:</b>        | 0 lb/gal, 0 g/l                      |
| <b>Coefficient of water/oil distribution:</b> | N.D.                 |                               |                                      |

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

## 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Hazardous polymerisation will not occur under normal conditions.

**STABILITY:** Product is stable under normal storage conditions.

**CONDITIONS TO AVOID:** Moisture; High temperatures.; Contact with acids, bases, and many metals and metallic oxides will liberate hydrogen which is a flammable gas.

**INCOMPATIBILITY:** Strong acids, bases, and strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Does not decompose when used and stored as recommended., Carbon monoxide, carbon dioxide., Oxides of silicon, Formaldehyde.

## 11. TOXICOLOGICAL INFORMATION

**EXPOSURE PATH:** Refer to section 2 of this SDS.

**SYMPTOMS:** Refer to section 2 of this SDS.

### TOXICITY MEASURES:

| <b>Chemical Name</b>         | <b>LD50/LC50</b>                                                                                  |
|------------------------------|---------------------------------------------------------------------------------------------------|
| Siloxane                     | N.D.                                                                                              |
| Siloxanes                    | Oral LD50: Rat >16 mL/kg<br>Dermal LD50: Rabbit >16 mL/kg                                         |
| Octamethylcyclotetrasiloxane | Oral LD50: Rat 1,540 mg/kg<br>Dermal LD50: Rat > 2,375 mg/kg<br>Inhalation LC50: Rat 36 mg/l /4 h |

**Germ cell mutagenicity:** No classification proposed

**Carcinogenicity:** No classification proposed

**Reproductive toxicity:** Category 2 - Suspected of damaging fertility or the unborn child.

Components contributing to classification: Octamethylcyclotetrasiloxane.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

| <b>Chemical Name</b>         | <b>Ecotoxicity</b>                                                                                                     |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Siloxane                     | N.D.                                                                                                                   |
| Siloxanes                    | N.D.                                                                                                                   |
| Octamethylcyclotetrasiloxane | Fish: Brachydanio rerio > 500 mg/196 h<br>Lepomis macrochirus > 1,000 mg/196 h<br>Oncorhynchus mykiss > 0.022 mg/196 h |

**PERSISTENCE AND DEGRADABILITY:** Not determined for this product.

**BIOACCUMULATIVE:** Not determined for this product.

**MOBILITY IN SOIL:** Not determined for this product.

**OTHER ADVERSE EFFECTS:** Not determined for this product.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

### 14. TRANSPORT INFORMATION

#### US DOT Road

|                                         |                                                     |
|-----------------------------------------|-----------------------------------------------------|
| <b>Proper Shipping Name:</b>            | Environmentally hazardous substance, liquid, n.o.s. |
| <b>Hazard Class:</b>                    | 9                                                   |
| <b>Secondary hazard:</b>                | None                                                |
| <b>UN/NA Number:</b>                    | 3082                                                |
| <b>Packing group:</b>                   | III                                                 |
| <b>Emergency Response Guide Number:</b> | 171                                                 |

For US DOT non-bulk road shipments this material may be classified as NOT REGULATED. For the most accurate shipping information, refer to your transportation/compliance department regarding changes in package size, mode of shipment or other regulatory descriptors.

#### IATA Cargo

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Proper shipping name:</b> | Environmentally hazardous substance, liquid, n.o.s. |
| <b>Hazard Class:</b>         | 9                                                   |
| <b>Hazard class:</b>         | None                                                |
| <b>UN number:</b>            | 3082                                                |
| <b>Packing group:</b>        | III                                                 |
| <b>EmS:</b>                  | 9L                                                  |

#### IMDG

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Proper shipping name:</b> | Environmentally hazardous substance, liquid, n.o.s. |
| <b>Hazard Class:</b>         | 9                                                   |
| <b>Hazard class:</b>         | None                                                |
| <b>UN number:</b>            | 3082                                                |
| <b>Packing group:</b>        | III                                                 |
| <b>EmS:</b>                  | F-A; S-F                                            |

The listed transportation classification applies to non-bulk shipments. It does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors. For the most accurate shipping information, refer to your transportation/compliance department.

### 15. REGULATORY INFORMATION

#### **U.S. FEDERAL REGULATIONS: AS FOLLOWS:**

##### **SARA SECTION 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.:

None

##### **TOXIC SUBSTANCES CONTROL ACT:**

##### **INVENTORY STATUS**

The chemical substances in this product are on the active TSCA Section 8 Inventory or exempt.

**EXPORT NOTIFICATION**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

Under HazCom 2012 it is optional to continue using the HMIS rating system. It is important to ensure employees have been trained to recognize the different numeric ratings associated with the HazCom 2012 and HMIS schemes.

**HMIS RATINGS** - HEALTH: 2\* FLAMMABILITY: 1 PHYSICAL HAZARD: 0

\* - Indicates a chronic hazard; see Section 2

**Revision:** Section 15

**Effective Date:** 10/31/2024

|                   |
|-------------------|
| <b>DISCLAIMER</b> |
|-------------------|

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.