

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product name: **CoolTherm® UR-2000 RESIN**  
Product Use/Class: **Thermal Interface Mtl. Part A**

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:** 02/03/2025

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

Hazardous to the aquatic environment - acute hazard Category 3  
Hazardous to the aquatic environment - chronic hazard Category 3

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

None

**Signal Word**

None

**Hazard statements**

Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

Avoid release to the environment.

**Response**

Refer to Section 4 of this SDS.

**Storage**

Refer to Section 7 of this SDS.

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

**Chronic:** No additional hazards determined for this product outside of the GHS classification.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous ingredients above the threshold concentration

Chemical Name	CAS Number	Range
Modified diol	PROPRIETARY	10 - 15 %

Polyol	PROPRIETARY	1 - 5 %
Triphenyl phosphate compound	68937-40-6	1 - 5 %

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:** Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. 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:** Do not use water jet as this may spread the fire.

**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. Use with adequate ventilation. Avoid skin and eye contact. Avoid breathing processing fumes or vapors. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used.

**STORAGE:** Store only in well-ventilated areas. Keep container closed when not in use.

**INCOMPATIBILITY:** Strong acids and oxidizers.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### COMPONENT EXPOSURE LIMIT

Chemical Name	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	Skin
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Modified diol	N.E.	N.E.	N.E.	N.E.	Not applicable
Polyol	N.E.	N.E.	N.E.	N.E.	Not applicable
Triphenyl phosphate compound	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.

**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>	Slight	<b>Vapor Pressure:</b>	N.D.
<b>Appearance:</b>	Red	<b>Vapor density:</b>	Heavier than Air
<b>Physical state:</b>	Paste	<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>	2.31 g/cm <sup>3</sup> (19.20 lb/gal)
<b>Decomposition temperature:</b>	N.D.	<b>Viscosity, dynamic:</b>	≥ 329,000 mPa.s @ 25 °C
<b>Odor threshold:</b>	N.D.	<b>Viscosity, kinematic:</b>	≥ 142,424 mm <sup>2</sup> /s @ 25 °C
<b>Solubility in H<sub>2</sub>O:</b>	Insoluble	<b>Volatile by weight:</b>	0.20 %
<b>pH:</b>	N.A.	<b>Volatile by volume:</b>	0.47 %
<b>Freeze point:</b>	N.D.	<b>VOC Calculated:</b>	0.04 lb/gal, 5 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.; Exposure to sunlight.

**INCOMPATIBILITY:** Strong acids and oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Does not decompose when used and stored as recommended., Carbon monoxide, carbon dioxide., Aldehydes, Acids, Oxides of butadiene, Oxides of phosphorus

### 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>
Modified diol	Oral LD50: Rat > 2,000 mg/kg Dermal LD50: Rat > 2,000 mg/kg
Polyol	N.D.
Triphenyl phosphate compound	Oral LD50: rat 5,000 mg/kg Oral LD50: Rat > 5 g/kg Dermal LD50: rabbit > 2,000 mg/kg GHS LC50 (dust and mist): rat 400 mg/m3/6 h

**Germ cell mutagenicity:** No classification proposed

**Carcinogenicity:** No classification proposed

**Reproductive toxicity:** No classification proposed

## 12. ECOLOGICAL INFORMATION

**ECOTOXICITY:**

<b>Chemical Name</b>	<b>Ecotoxicity</b>
Modified diol	<u>Fish:</u> Oncorhynchus mykiss 64 mg/l96 h semi-static
Polyol	N.D.
Triphenyl phosphate compound	<u>Invertebrates:</u> Daphnia magna (Water flea) 0.202 mg/148 h <u>Plants:</u> Scenedesmus capricornutum (fresh water algae) 3 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

This product is NOT REGULATED for non-bulk shipments. For the most accurate shipping information, refer to your transportation/compliance department regarding changes in package size, mode of shipment or other regulatory descriptors.

## 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:

None

<b>16. OTHER INFORMATION</b>
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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: 1 FLAMMABILITY: 1 PHYSICAL HAZARD: 1**

\* - Indicates a chronic hazard; see Section 2

**Revision:** Section 3, Section 8, Section 11, Section 12

**Effective Date:** 02/03/2025

<b>DISCLAIMER</b>
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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.