

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product name: **SIPIOL® UV E1014790 RED**  
Product Use/Class: **Coating, UV Cure**

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:** 03/15/2024

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

Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A  
Skin sensitization Category 1B  
Specific target organ systemic toxicity (single exposure) Category 3  
Hazardous to the aquatic environment - acute hazard Category 1  
Hazardous to the aquatic environment - chronic hazard Category 1

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

WARNING

**Hazard statements**

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
May cause respiratory irritation.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

Wear protective gloves, eye protection, face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.

**Response**

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 or rash 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:** 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
Acrylate monomer	PROPRIETARY	30 - 35 %
Isooctyl acrylate	29590-42-9	15 - 20 %
Dipentaerythritol hexaacrylate	29570-58-9	5 - 10 %
Photoinitiator	PROPRIETARY	1 - 5 %
Phosphate methacrylate	PROPRIETARY	1 - 5 %
Zinc oxide (ZnO)	1314-13-2	1 - 5 %
Methacrylate monomer	PROPRIETARY	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:** 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:** Not determined for this product.

**SPECIFIC HAZARDS POSSIBLY ARISING FROM THE CHEMICAL:** Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. 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. Water spray may be ineffective. If water is used, fog nozzles are preferable.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** Avoid contact. Avoid breathing vapors. Use self-contained breathing equipment.

**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 a safe distance away from the spill area. Notify appropriate authorities if necessary. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of this safety data sheet. Contain and remove with inert absorbent material.

## 7. HANDLING AND STORAGE

**HANDLING:** Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Liquid penetrates shoes and leather, causing delayed burns. Discard leather apparel that is permeated or impregnated with this product such as shoes, belts, and watchbands. Use with adequate ventilation.

**STORAGE:** Store drum out of sun and away from heat. Store only in well-ventilated areas. Do not puncture, drag, or slide container. Keep container closed when not in use.

**INCOMPATIBILITY:** Inorganic acids, organic acids, caustics, oxidizing agents, amines, peroxides.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### COMPONENT EXPOSURE LIMIT

Chemical Name	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	Skin
Acrylate monomer	N.E.	N.E.	N.E.	N.E.	Not applicable
Isooctyl acrylate	N.E.	N.E.	N.E.	N.E.	Not applicable
Dipentaerythritol hexaacrylate	N.E.	N.E.	N.E.	N.E.	Not applicable
Photoinitiator	N.E.	N.E.	N.E.	N.E.	Not applicable
Phosphate methacrylate	N.E.	N.E.	N.E.	N.E.	Not applicable
Zinc oxide (ZnO)	N.E.	N.E.	5 mg/m3	N.E.	Not applicable
Methacrylate monomer	N.E.	N.E.	N.E.	N.E.	Not applicable

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

**ENGINEERING CONTROLS:** Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

### PERSONAL PROTECTION MEASURES/EQUIPMENT:

**Respiratory protection:** Use a NIOSH approved chemical/mechanical filter respirator designed to remove a combination of particulates and organic vapor if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. For respirator use observe OSHA regulations (29CFR 1910.134) or use in accordance with applicable laws and regulations of your country or particular locality.

**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:** Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse. Use protective barrier cream if skin contact is likely. Discard leather articles such as shoes, watchbands, or belts which have become impregnated or permeated with this product. Use long-sleeved shirt to minimize skin exposure.

**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>	Acrylic	<b>Vapor Pressure:</b>	N.D.
<b>Appearance:</b>	Red	<b>Vapor density:</b>	Heavier than Air
<b>Physical state:</b>	Viscous 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>	N.A.
<b>Autoignition temperature:</b>	N.D.	<b>Density:</b>	1.12 g/cm <sup>3</sup> (9.35 lb/gal)
<b>Decomposition temperature:</b>	N.D.	<b>Viscosity, dynamic:</b>	≥ 7,500 mPa.s @ 21 °C
<b>Odor threshold:</b>	N.D.	<b>Viscosity, kinematic:</b>	≥ 6,696 mm <sup>2</sup> /s @ 21 °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:** Storage above 100 degrees F and below 32 degrees F. Exposure to sunlight, ultraviolet light irradiation. Avoid dropping or puncture of containers.; Heat, flames and sparks.

**INCOMPATIBILITY:** Inorganic acids, organic acids, caustics, oxidizing agents, amines, peroxides.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, oxides of nitrogen., Metal oxides

## 11. TOXICOLOGICAL INFORMATION

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

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

**TOXICITY MEASURES:**

Chemical Name	LD50/LC50
Acrylate monomer	Oral LD50: Rat 4,890 mg/kg Dermal LD50: Rabbit > 5 g/kg Dermal LD50: Rabbit > 3,000 mg/kg
Isooctyl acrylate	Oral LD50: Rat > 5 g/kg

	Dermal LD50: Rabbit > 2,000 mg/kg
Dipentaerythritol hexaacrylate	N.D.
Photoinitiator	Oral LD50: Rat > 2,000 mg/kg Dermal LD50: Rat > 2,000 mg/kg
Phosphate methacrylate	Oral LD50: Rat > 2,000 mg/kg
Zinc oxide (ZnO)	Oral LD50: Rat > 5,000 mg/kg Dermal LD50: Rat > 2,000 mg/kg GHS LC50 (vapour): Acute toxicity point estimate 55 mg/l Inhalation LC50: Rat > 5,700 mg/m <sup>3</sup> /4 h
Methacrylate monomer	Oral LD50: Rat 5,050 mg/kg Dermal LD50: Rabbit > 3,000 mg/kg

**Germ cell mutagenicity:** No classification proposed

**Carcinogenicity:** No classification proposed

**Reproductive toxicity:** No classification proposed

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

<u>Chemical Name</u>	<u>Ecotoxicity</u>
Acrylate monomer	<u>Fish:</u> Danio rerio 0.704 mg/196 h semi-static <u>Invertebrates:</u> Daphnia magna 0.092 mg/121 d semi-static
Isooctyl acrylate	<u>Fish:</u> Pimephales promelas 0.67 mg/196 h <u>Invertebrates:</u> Daphnia magna 0.4 mg/148 h
Dipentaerythritol hexaacrylate	N.D.
Photoinitiator	<u>Fish:</u> Danio rerio > 90 µg/196 h semi-static <u>Invertebrates:</u> Daphnia magna >= 8.1 µg/121 d semi-static
Phosphate methacrylate	<u>Fish:</u> Cyprinus carpio (Carp) > 100 mg/196 h <u>Invertebrates:</u> Daphnia magna (Water flea) > 100 mg/148 h
Zinc oxide (ZnO)	N.D.
Methacrylate monomer	<u>Fish:</u> Pimephales promelas 213 - 242 mg/196 h flow-through Pimephales promelas 227 mg/196 h Oryzias latipes > 100 mg/196 h <u>Invertebrates:</u> Daphnia magna 380 mg/148 h Daphnia magna 24.1 mg/121 d Static

**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

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

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class:** 9  
**Hazard class:** None  
**UN number:** 3082  
**Packing group:** III  
**EmS:** 9L

### IMDG

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class:** 9  
**Hazard class:** None  
**UN number:** 3082  
**Packing group:** III  
**EmS:** 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.:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight percent less than</u>
Zinc oxide (ZnO)	1314-13-2	5.0 %

### 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

## 16. OTHER INFORMATION

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: 1**

\* - Indicates a chronic hazard; see Section 2

**Revision:** Section 1, Section 2, Section 3, Section 9, Section 12

**Effective Date:** 03/15/2024

<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.