

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product name: **VERSILOK® 253**  
Product Use/Class: **Acrylic Adhesive**

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:** 08/30/2023

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

Acute toxicity Oral Category 4 - 54.8% of the mixture consists of ingredient(s) of unknown toxicity.  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
Skin sensitization Category 1  
Reproductive toxicity Category 1B  
Specific target organ systemic toxicity (single exposure) Category 3  
Specific target organ systemic toxicity (single exposure) Category 1 Respiratory system  
Specific target organ systemic toxicity (repeated exposure) Category 1 Respiratory system  
Hazardous to the aquatic environment - acute hazard Category 3  
Hazardous to the aquatic environment - chronic hazard Category 3

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

DANGER

**Hazard statements**

Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
May damage fertility or the unborn child.  
May cause respiratory irritation.  
Causes damage to organs.(Respiratory system)  
Causes damage to organs through prolonged or repeated exposure.(Respiratory system)  
Harmful to aquatic life.  
Harmful 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.  
Do not breathe dust, fume, mist, vapors, spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
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

Immediately call a POISON CENTER or doctor, physician.  
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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Rinse mouth.  
Take off contaminated clothing and wash before reuse.

#### 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 cause headache and nausea. May be absorbed through the skin in harmful amounts.

**Chronic:** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. IARC has designated titanium dioxide (TiO<sub>2</sub>) as Group 2B – possibly carcinogenic to humans in dust form. However, a number of long term animal studies and human epidemiology studies evaluating TiO<sub>2</sub> and workplace exposure show insufficient evidence for carcinogenic effects. EPA, NTP and OSHA do not designate TiO<sub>2</sub> as a carcinogen and ACGIH designates TiO<sub>2</sub> as A4 - not classifiable as a human carcinogen. Mortality from other chronic diseases, including other respiratory diseases, was not associated with exposure to TiO<sub>2</sub> dust. TiO<sub>2</sub> is not present in this product as a dust and no airborne exposure is expected during application. Crystalline silica is classified by IARC and NTP as a known human carcinogen as a respirable dust. The silica in Parker Lord products is not in a form that can be inhaled and presents no risk to the end user. No exposure is expected during normal use of this product. Sanding or abrading the cured materials is not recommended. Wear appropriate respiratory protection if exposure to dusts is possible. Prolonged exposure to the silica-containing sanding dust of this product could cause long-term lung damage.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients above the threshold concentration

Chemical Name	CAS Number	Range
Tetrahydrofurfuryl methacrylate	2455-24-5	25 - 30 %
Methacrylate blend	PROPRIETARY	1 - 5 %
Methacrylate phosphate ester	PROPRIETARY	1 - 5 %
Titanium dioxide	13463-67-7	1 - 5 %
Methacrylic acid	79-41-4	1 - 5 %
Amine curative	PROPRIETARY	1 - 5 %
Crystalline silica	14808-60-7	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:** 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. Use appropriate respiratory protection for large spills or spills in confined area.

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Notify appropriate authorities if necessary. Avoid contact. Keep non-essential personnel away from spill area. Before attempting cleanup, refer to hazard caution information in other sections of this safety data sheet. Scoop spilled material into an appropriate container for proper disposal. (If necessary, use inert absorbent material to aid in containing the spill).

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

**INCOMPATIBILITY:** Peroxides and oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### COMPONENT EXPOSURE LIMIT

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH TLV-STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>	<u>Skin</u>
Tetrahydrofurfuryl methacrylate	N.E.	N.E.	N.E.	N.E.	Not applicable
Methacrylate blend	N.E.	N.E.	N.E.	N.E.	Not applicable
Methacrylate phosphate ester	N.E.	N.E.	N.E.	N.E.	Not applicable
Titanium dioxide	10 mg/m3	N.E.	15 mg/m3	N.E.	Not applicable

Methacrylic acid	20 ppm	N.E.	N.E.	N.E.	S
Amine curative	N.E.	N.E.	N.E.	N.E.	Not applicable
Crystalline silica	0.05 mg/m3	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 air-purifying organic vapor respirator 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. If contact with the product is prolonged or repeated, Silver Shield or Butyl rubber gloves are recommended.

**Eye protection:** Use safety glasses with side shields as minimum protection.

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

**Hygienic practices:** Wash hands before eating, smoking, or using toilet facility. 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>	Acrylate	<b>Vapor Pressure:</b>	N.D.
<b>Appearance:</b>	White	<b>Vapor density:</b>	Heavier than Air
<b>Physical state:</b>	Paste	<b>Lower explosion limit:</b>	1.6 %(V)
<b>Flash point:</b>	≥ 201 °F, 93 °C	<b>Upper explosive limit:</b>	8.8 %(V)
<b>Boiling range:</b>	Setaflash Closed Cup	<b>Evaporation rate:</b>	Slower than n-butyl-acetate
<b>Autoignition temperature:</b>	N.D.	<b>Density:</b>	1.2 g/cm3 (9.96 lb/gal)
<b>Decomposition temperature:</b>	N.D.	<b>Viscosity, dynamic:</b>	N.D.
<b>Odor threshold:</b>	N.D.	<b>Viscosity, kinematic:</b>	N.D.
<b>Solubility in H2O:</b>	Insoluble	<b>Volatile by weight:</b>	0.02 %
<b>pH:</b>	N.A.	<b>Volatile by volume:</b>	0.03 %
<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:** High temperatures.

**INCOMPATIBILITY:** Peroxides and oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Does not decompose when used and stored as recommended., Carbon monoxide, carbon dioxide, organic or inorganic nitrogen compounds including traces of hydrogen cyanide., Corrosive acid vapors

### 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
Tetrahydrofurfuryl methacrylate	Oral LD50: Rat 3,945 mg/kg
Methacrylate blend	Oral LD50: rat > 5,000 mg/kg Dermal LD50: Rat > 2,000 mg/kg Inhalation LC50: Mouse 55 mg/l /3 h GHS LC50 (vapour): Rat 29.8 mg/l /4 h
Methacrylate phosphate ester	Oral LD50: rat > 5,000 mg/kg
Titanium dioxide	Oral LD50: Rat > 10,000 mg/kg Oral LD50: Rat > 5,000 mg/kg Dermal LD50: rabbit > 5,000 mg/kg GHS LC50 (dust and mist): Rat > 6.82 mg/l /4 h
Methacrylic acid	Oral LD50: Rat 1,320 mg/kg Dermal LD50: Rabbit 500 - 1,000 mg/kg GHS LC50 (vapour): Acute toxicity point estimate 11 mg/l GHS LC50 (dust and mist): Rat 7.1 mg/l /4 h
Amine curative	Oral LD50: Rat 25 mg/kg Dermal LD50: Rat > 2,000 mg/kg
Crystalline silica	GHS LC50 (vapour): Acute toxicity point estimate 55 mg/l

**Germ cell mutagenicity:** No classification proposed

**Carcinogenicity:** No classification proposed

**Reproductive toxicity:** Category 1B - May damage fertility or the unborn child.

Components contributing to classification: Tetrahydrofurfuryl methacrylate.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICITY:**

Chemical Name	Ecotoxicity
Tetrahydrofurfuryl methacrylate	<u>Fish:</u> Pimephales promelas 34.7 mg/196 h <u>Invertebrates:</u> Daphnia magna 37.2 mg/121 d semi-static
Methacrylate blend	<u>Fish:</u> Danio rerio 590 mg/196 h flow-through <u>Invertebrates:</u> Daphnia magna 37 mg/121 d semi-static
Methacrylate phosphate ester	<u>Fish:</u> Oncorhynchus mykiss > 112 mg/196 h Static
Titanium dioxide	<u>Fish:</u> Oncorhynchus mykiss > 100 mg/196 h <u>Invertebrates:</u> Daphnia magna > 100 mg/148 h
Methacrylic acid	<u>Fish:</u> Oncorhynchus mykiss 85 mg/196 h flow-through <u>Invertebrates:</u> Daphnia magna > 130 mg/148 h Daphnia magna >= 53 mg/121 d semi-static
Amine curative	<u>Fish:</u> Brachydanio rerio 17 mg/196 h Static Danio rerio 17 mg/196 h Static <u>Invertebrates:</u> Daphnia magna (Water flea) 28.8 mg/148 h Static
Crystalline silica	N.D.

**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.

<b>14. TRANSPORT INFORMATION</b>
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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.

<b>15. REGULATORY INFORMATION</b>
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**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: 2    FLAMMABILITY: 1    PHYSICAL HAZARD: 1**

\* - Indicates a chronic hazard; see Section 2

**Revision:** Section 1

**Effective Date:** 08/30/2023

<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.