

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **CHEMLOK® Y-1540**
Product Use/Class: **Adhesive**

LORD Corporation
111 LORD Drive
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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: 05/21/2025

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATION:**

Flammable liquids Category 2
Acute toxicity Oral Category 3 - 8.8% of the mixture consists of ingredient(s) of unknown toxicity.
Acute toxicity Dermal Category 3 - 8.6% of the mixture consists of ingredient(s) of unknown toxicity.
Acute toxicity Inhalation - Vapour Category 3 - 19.0% of the mixture consists of ingredient(s) of unknown toxicity.
Acute toxicity Inhalation - Dust and Mist Category 3 - 19.0% of the mixture consists of ingredient(s) of unknown toxicity.
Serious eye damage/eye irritation Category 2A
Specific target organ systemic toxicity (single exposure) Category 1
Aspiration hazard Category 1
Hazardous to the aquatic environment - acute hazard Category 3

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

DANGER

Hazard statements

Highly flammable liquid and vapor.
Toxic if swallowed.
Toxic in contact with skin.
Toxic if inhaled.
Causes serious eye irritation.
Causes damage to organs.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.

Precautionary statements**Prevention**

Keep away from heat, sparks, open flames, hot surfaces. - No smoking.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting equipment.
Use only non-sparking tools.

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Take precautionary measures against static discharge.
Wear protective gloves, protective clothing, eye protection, face protection.
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.
Avoid release to the environment.

Response

In case of fire: refer to section 5 of SDS for extinguishing media.
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 (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor, physician.
Rinse mouth.
Do NOT induce vomiting.
Wash contaminated clothing before reuse.

Storage

Store in a well-ventilated place. Keep cool.
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: Vapor harmful; may affect the brain or nervous system causing dizziness, headache or nausea. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. May cause skin irritation. Contains methanol; may be harmful or fatal if swallowed; ingestion of methanol may cause blindness or permanent eye damage. Cannot be made non-poisonous. The silane material in this product can hydrolyze to form ethanol. Ethanol can cause moderate eye irritation, moderate skin irritation; and can be absorbed through the skin causing headache, nausea, and general discomfort. Ethanol is toxic by inhalation. If swallowed, the silane material in this product can hydrolyze in the stomach to form ethanol. Refer to the ethanol warnings on this (M)SDS.

Chronic: Prolonged or repeated contact may result in dermatitis. May affect the gastrointestinal system. May cause liver or kidney damage. This material contains methanol. Ingestion of methanol may cause permanent eye damage or blindness. ACGIH considers Ethyl alcohol to be an A3 carcinogen (confirmed animal carcinogen with unknown relevance in humans).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients above the threshold concentration

Chemical Name	CAS Number	Range
Methanol	67-56-1	75 - 80 %
Propylene glycol	57-55-6	5 - 10 %
Amino zircoaluminate	125380-33-8	1 - 5 %
Ethyl alcohol	64-17-5	1 - 5 %
Silane monomer	PROPRIETARY	1 - 5 %
Hydrochloric acid	7647-01-0	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: Flammable liquid and vapor. 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. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. 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: Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). 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. Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Avoid breathing vapors. Use self-contained breathing equipment. 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 and non-sparking tools. Avoid contact.

7. HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Ground and bond containers when transferring material. 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. Use with adequate ventilation. Because empty containers may retain product residue and flammable vapors, keep away from heat, sparks and flame; do not cut, puncture or weld on or near the empty container. Do not smoke where this product is used or stored.

STORAGE: Do not store or use near heat, sparks, or open flame. Store only in well-ventilated areas. Do not puncture, drag, or slide container. Keep container closed when not in use. Refer to OSHA 29CFR Part 1910.106 "Flammable and Combustible Liquids" for specific storage requirements.

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
Methanol	200 ppm	250 ppm	260 mg/m ³ 200 ppm	N.E.	S
Propylene glycol	N.E.	N.E.	N.E.	N.E.	Not applicable
Amino zircoaluminate	5 mg/m ³	10 mg/m ³	5 mg/m ³	N.E.	Not applicable
Ethyl alcohol	N.E.	1,000 ppm	1,900 mg/m ³ 1,000 ppm	N.E.	Not applicable
Silane monomer	N.E.	N.E.	N.E.	N.E.	Not applicable
Hydrochloric acid	2 ppm Ceiling	N.E.	N.E.	7 mg/m ³ 5 ppm	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. Caution: Solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating.

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/manufacture, 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.

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.

Odor:	Solvent	Vapor Pressure:	N.D.
Appearance:	Red	Vapor density:	Heavier than Air
Physical state:	Liquid	Lower explosion limit:	2.6 %(V)
Flash point:	49 °F, 9 °C Setaflash	Upper explosive limit:	36.5 %(V)
	Closed Cup		
Boiling range:	65 - 100 °C	Evaporation rate:	Faster than n-butyl-acetate.
Autoignition temperature:	N.D.	Density:	0.85 g/cm ³ (7.05 lb/gal)
Decomposition temperature:	N.D.	Viscosity, dynamic:	≥3 mPa.s @ 25 °C
Odor threshold:	N.D.	Viscosity, kinematic:	≥4 mm ² /s @ 25 °C
Solubility in H₂O:	Insoluble	Volatile by weight:	81.06 %
pH:	N.A.	Volatile by volume:	86.37 %
Freeze point:	N.D.	VOC Calculated:	5.69 lb/gal, 682 g/l
Coefficient of water/oil distribution:	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. Sources of ignition.

INCOMPATIBILITY: Strong acids, bases, and strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not decompose when used and stored as recommended., Carbon monoxide, carbon dioxide.

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
Methanol	Oral LD50: Acute toxicity point estimate 100 mg/kg Dermal LD50: Acute toxicity point estimate 300 mg/kg
Propylene glycol	Oral LD50: Rat 20 g/kg Dermal LD50: Rabbit 20,800 mg/kg
Amino zircoaluminate	N.D.
Ethyl alcohol	Oral LD50: Rat 10,470 mg/kg Dermal LD50: Rat 15,800 mg/kg GHS LC50 (vapour): Rat 51 mg/l /4 h
Silane monomer	Oral LD50: Rat 8 mL/kg Dermal LD50: Rabbit 10 mL/kg Dermal LD50: Rabbit 7,200 mg/kg
Hydrochloric acid	Oral LD50: Rat 238 - 277 mg/kg Dermal LD50: Rabbit > 5,010 mg/kg Inhalation LC50: Rat 1.68 mg/l /1 h

Germ cell mutagenicity: No classification proposed

Carcinogenicity: No classification proposed

Reproductive toxicity: No classification proposed

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Chemical Name	Ecotoxicity
Methanol	<u>Fish:</u> Pimephales promelas 28,200 mg/196 h flow-through Pimephales promelas > 100 mg/196 h Static Oncorhynchus mykiss 19,500 - 20,700 mg/196 h flow-through Lepomis macrochirus 13,500 - 17,600 mg/196 h flow-through Lepomis macrochirus 15,400 mg/196 h <u>Invertebrates:</u> Daphnia magna 18,000 mg/148 h
Propylene glycol	<u>Fish:</u> Oncorhynchus mykiss 51,600 mg/196 h Static Pimephales promelas 51,400 mg/196 h Static Pimephales promelas 710 mg/196 h <u>Invertebrates:</u> Daphnia magna > 1,000 mg/148 h Static <u>Plants:</u> Pseudokirchneriella subcapitata 19,000 mg/196 h
Amino zircoaluminate	N.D.
Ethyl alcohol	<u>Fish:</u> Pimephales promelas > 100 mg/196 h Static Pimephales promelas 14,200 mg/196 h <u>Invertebrates:</u> Daphnia magna 9,268 - 14,221 mg/148 h Daphnia magna 12,340 mg/148 h
Silane monomer	<u>Invertebrates:</u> Daphnia magna 28.1 mg/121 d semi-static

Hydrochloric acid	N.D.
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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: FLAMMABLE LIQUIDS, TOXIC, N.O.S.
Hazard class: 3
Secondary hazard class: 6.1
UN/NA Number: 1992
Packing group: II
Emergency Response Guide Number: 131

IATA Cargo

Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.
Hazard class: 3
Secondary hazard class: 6.1
UN number: 1992
Packing group: II
EmS: 3P

IMDG

Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.
Hazard class: 3
Secondary hazard class: 6.1
UN number: 1992
Packing group: II
EmS: F-E; S-D

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>
Methanol	67-56-1	80.0 %
Hydrochloric acid	7647-01-0	0.9 %

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: 3 PHYSICAL HAZARD: 0

* - Indicates a chronic hazard; see Section 2

Revision: Section 1, Section 2, Section 11, Section 12, Section 14

Effective Date: 05/21/2025

DISCLAIMER

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.