

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product name: **CHEMLOK 5151**  
Product Use/Class: **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:** 12/04/2020

**2. HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:**

Flammable liquids Category 2  
Acute toxicity Inhalation - Dust and Mist Category 4  
Acute toxicity Inhalation - Vapours Category 4  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
Skin sensitization Category 1  
Specific target organ systemic toxicity (single exposure) Category 3  
Specific target organ systemic toxicity (single exposure) Category 2 Kidney  
Specific target organ systemic toxicity (single exposure) Category 1  
Specific target organ systemic toxicity (repeated exposure) Category 1 Nervous system  
Specific target organ systemic toxicity (repeated exposure) Category 2 Respiratory system  
Aspiration hazard Category 1

**GHS LABEL ELEMENTS:**

Symbol(s)



**Signal Word**

DANGER

**Hazard Statements**

Highly flammable liquid and vapor.  
Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
May cause drowsiness or dizziness.  
May cause respiratory irritation.  
May cause damage to organs.(Kidney)  
Causes damage to organs.  
Causes damage to organs through prolonged or repeated exposure.(Nervous system)  
May cause damage to organs through prolonged or repeated exposure.(Respiratory system)  
May be fatal if swallowed and enters airways.

**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.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not breathe dust/fume/gas/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.

#### Response

In case of fire: refer to section 5 of SDS for extinguishing media.  
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 (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.  
Do NOT induce vomiting.

#### 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. Possible irritation of the respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. High concentrations are extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin. Symptoms of inhalation exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. Dermal absorption possible. Silane monomer 1 in this product may decompose to become ethanol. For ethanol, the OSHA PEL is 1000 ppm, and the ACGIH TLV-TWA is 1000 ppm. Eye contact may cause severe eye damage, including vision disturbances, corneal damage, and blindness. May be harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

**Chronic:** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Range
Methyl ethyl ketone	78-93-3	80 - 85 %
Silane monomer 1	PROPRIETARY	10 - 15 %

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. Keep containers 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 (SCBA). 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. Notify appropriate authorities if necessary. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the SDS form. Contain and remove with inert absorbent material.

## 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
Methyl ethyl ketone	200 ppm	300 ppm	590 mg/m <sup>3</sup> 200 ppm	N.E.	N.A.
Silane monomer 1	N.E.	N.E.	N.E.	N.E.	N.A.

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.

**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.

<b>ODOR:</b>	Solvent	<b>VAPOR PRESSURE:</b>	N.D.
<b>APPEARANCE:</b>	Clear	<b>VAPOR DENSITY:</b>	Heavier than Air
<b>PHYSICAL STATE:</b>	Liquid	<b>LOWER EXPLOSIVE LIMIT:</b>	1.4 %(V)
<b>FLASH POINT:</b>	22 °F, -5 °C Setaflash	<b>UPPER EXPLOSIVE LIMIT:</b>	11.4 %(V)
	Closed Cup		
<b>BOILING RANGE:</b>	80 °C	<b>EVAPORATION RATE:</b>	Not Applicable
<b>AUTOIGNITION TEMPERATURE:</b>	N.D.	<b>DENSITY:</b>	0.84 g/cm <sup>3</sup> (7.00 lb/gal)
<b>DECOMPOSITION TEMPERATURE:</b>	N.D.	<b>VISCOSITY, DYNAMIC:</b>	≥5 mPa.s @ 25 °C
<b>ODOR THRESHOLD:</b>	N.D.	<b>VISCOSITY, KINEMATIC:</b>	≥6 mm <sup>2</sup> /s @ 25 °C
<b>SOLUBILITY IN H<sub>2</sub>O:</b>	Soluble	<b>VOLATILE BY WEIGHT:</b>	80.80 %
<b>pH:</b>	N.A.	<b>VOLATILE BY VOLUME:</b>	84.11 %
<b>FREEZE POINT:</b>	N.D.	<b>VOC CALCULATED:</b>	5.65 lb/gal, 677 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 polymerization 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:** Oxides of nitrogen, Carbon monoxide, carbon dioxide, Oxides of silicon

**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>
Methyl ethyl ketone	Oral LD50: Rat 2,483 mg/kg Dermal LD50: Rabbit 5,000 mg/kg Inhalation LC50: Rat 11700 ppm/4 h
Silane monomer 1	Oral LD50: Rat 1,780 mg/kg Dermal LD50: Rabbit 4 mL/kg Dermal LD50: Rabbit 4,290 mg/kg Inhalation LC50: Rat > 7.35 mg/l /4 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>
Methyl ethyl ketone	<u>Fish:</u> Pimephales promelas 3,130 - 3,320 mg/196 h flow-through <u>Invertebrates:</u> Daphnia magna > 520 mg/148 h Daphnia magna 5,091 mg/148 h Daphnia magna 4,025 - 6,440 mg/148 h Static
Silane monomer 1	<u>Fish:</u> Danio rerio > 934 mg/196 h semi-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:** Adhesives  
**Hazard Class:** 3  
**SECONDARY HAZARD:** None  
**UN/NA Number:** 1133  
**Packing Group:** II  
**Emergency Response Guide Number:** 128

**IATA Cargo**

**PROPER SHIPPING NAME:** Adhesives  
**Hazard Class:** 3  
**HAZARD CLASS:** None  
**UN NUMBER:** 1133  
**PACKING GROUP:** II  
**EMS:** 3L

**IMDG**

**PROPER SHIPPING NAME:** Adhesives  
**Hazard Class:** 3  
**HAZARD CLASS:** None  
**UN NUMBER:** 1133  
**PACKING GROUP:** II  
**EMS:** F-E

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 TSCA Section 8 Inventory.

**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: 3\* FLAMMABILITY: 3 PHYSICAL HAZARD: 0**

\* - Indicates a chronic hazard; see Section 2

**Revision:** Company Logo

**Effective Date:** 12/04/2020

**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.