

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product name: **CHEMLOK 8310**  
Product Use/Class: **Primer for 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:** 02/05/2019

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

Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
Skin sensitization Category 1  
Carcinogenicity Category 2  
Reproductive toxicity Category 1B  
Hazardous to the aquatic environment - acute hazard Category 3

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

DANGER

**Hazard Statements**

Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
Suspected of causing cancer.  
May damage fertility or the unborn child.  
Harmful to aquatic life.

**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.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
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 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.

Take off contaminated clothing and wash before reuse.

**Storage**

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:** Prolonged or repeated contact may result in dermatitis. Formaldehyde may be released from this product in processes that involve heat. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, and acute toxicant. Formaldehyde has been identified by NTP and IARC as a known human carcinogen (IARC 1), and by OSHA as a potential human carcinogen. Workplace exposure to formaldehyde is regulated by OSHA Standard 29 CFR 1910.1048. IARC has designated carbon black as Group 2B - inadequate evidence for carcinogenicity in humans, but sufficient evidence in experimental animals. In 2006 IARC reaffirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. Further, epidemiological evidence from well-conducted investigations has shown no causative link between carbon black exposure and the risk of malignant or non-malignant respiratory disease in humans.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Range</b>
Tris (hydroxymethyl) nitromethane	126-11-4	1 - 5 %
Resorcinol	108-46-3	0.1 - 0.9 %
Carbon black	1333-86-4	0.1 - 0.9 %
1,2-benzenediol	120-80-9	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:** Keep containers tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. Dust/air mixture may be explosive: sources of ignition should be avoided where dust/air mixtures may occur. 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). 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. Contain and remove with inert absorbent material. Avoid contact. Keep non-essential personnel away from spill area. Before attempting cleanup, refer to hazard caution information in other sections of the SDS form.

**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. Use with adequate ventilation.

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

**INCOMPATIBILITY:** Strong acids and oxidizers.; Amines and bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**COMPONENT EXPOSURE LIMIT**

<b>Chemical Name</b>	<b>ACGIH TLV-TWA</b>	<b>ACGIH TLV-STEL</b>	<b>OSHA PEL-TWA</b>	<b>OSHA PEL-CEILING</b>	<b>Skin</b>
Tris (hydroxymethyl) nitromethane	N.E.	N.E.	N.E.	N.E.	N.A.
Resorcinol	10 ppm	20 ppm	N.E.	N.E.	N.A.
Carbon black	3 mg/m3	N.E.	3.5 mg/m3	N.E.	N.A.
1,2-benzenediol	5 ppm	N.E.	N.E.	N.E.	S

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. 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. Note: If the exposure limit for formaldehyde is exceeded, a formaldehyde-specific, formaldehyde/organic vapor combination, or airline respirator may be required. 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>	Mild	<b>VAPOR PRESSURE:</b>	N.D.
<b>APPEARANCE:</b>	Black	<b>VAPOR DENSITY:</b>	Heavier than Air
<b>PHYSICAL STATE:</b>	Liquid	<b>LOWER EXPLOSIVE LIMIT:</b>	1.4 %(V)
<b>FLASH POINT:</b>	≥ 201 °F, 93 °C	<b>UPPER EXPLOSIVE LIMIT:</b>	Not Applicable
<b>BOILING RANGE:</b>	100 °C	<b>EVAPORATION RATE:</b>	Slower than n-butyl-acetate
<b>AUTOIGNITION TEMPERATURE:</b>	N.D.	<b>DENSITY:</b>	1.05 g/cm <sup>3</sup> - 8.70 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 H<sub>2</sub>O:</b>	Water Dispersible	<b>VOLATILE BY WEIGHT:</b>	86.50 %
<b>pH:</b>	2.0	<b>VOLATILE BY VOLUME:</b>	88.33 %
<b>FREEZE POINT:</b>	N.D.	<b>VOC CALCULATED:</b>	0.17 lb/gal, 30 g/121 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 and oxidizers.; Amines and bases.

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

### 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
Tris (hydroxymethyl) nitromethane	Oral LD50: Rat 1,900 mg/kg Dermal LD50: Rabbit > 2,000 mg/kg Inhalation LC50: Rat 2.4 mg/l /4 h
Resorcinol	Oral LD50: Rat 202 mg/kg Dermal LD50: Rabbit 3,360 mg/kg Inhalation LC50: Rat 21.3 mg/l /1 h
Carbon black	Oral LD50: Rat > 15,400 mg/kg Dermal LD50: Rabbit > 3 g/kg GHS LC50 (vapour): Acute toxicity point estimate 55 mg/l
1,2-benzenediol	Oral LD50: Rat 260 mg/kg Dermal LD50: Rabbit 800 mg/kg

**Germ cell mutagenicity:** No classification proposed

**Carcinogenicity:** Category 2 - Suspected of causing cancer.  
Components contributing to classification: 1,2-benzenediol.

**Reproductive toxicity:** Category 1B - May damage fertility or the unborn child.  
Components contributing to classification: Methanol, 1,2-benzenediol.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

<u>Chemical Name</u>	<u>Ecotoxicity</u>
Tris (hydroxymethyl) nitromethane	N.D.
Resorcinol	<u>Fish:</u> Pimephales promelas 36 - 100 mg/196 h Static Pimephales promelas 100 mg/196 h flow-through Oncorhynchus mykiss > 100 mg/196 h flow-through Pimephales promelas 53.4 mg/196 h <u>Invertebrates:</u> Daphnia magna 78 mg/148 h
Carbon black	N.D.
1,2-benzenediol	<u>Fish:</u> Pimephales promelas 3.5 mg/196 h flow-through Oncorhynchus mykiss 8.9 mg/196 h flow-through <u>Invertebrates:</u> Daphnia magna 1.66 mg/148 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.:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight % Less Than</u>
1,2-benzenediol	120-80-9	0.9 %

### 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

<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: 0**

\* - Indicates a chronic hazard; see Section 2

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

**Effective Date:** 02/05/2019

<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.