

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product name: **CHEMLOK 236X**  
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:** 11/21/2016

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

Flammable liquids Category 3  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A  
Carcinogenicity Category 2  
Reproductive toxicity Category 2  
Specific target organ systemic toxicity (single exposure) Category 2 blood system  
Specific target organ systemic toxicity (single exposure) Category 1 Central nervous system, Kidney, Liver, Respiratory system  
Specific target organ systemic toxicity (single exposure) Category 3  
Specific target organ systemic toxicity (repeated exposure) Category 2 Ears, Liver, Kidney, Lungs, blood system  
Specific target organ systemic toxicity (repeated exposure) Category 1 Central nervous system, Respiratory system, Nervous system  
Hazardous to the aquatic environment - acute hazard Category 2  
Hazardous to the aquatic environment - chronic hazard Category 2

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

DANGER

**Hazard Statements**

Flammable liquid and vapor.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
May cause harm to breast-fed children.  
May cause damage to organs.(blood system)  
Causes damage to organs.(Central nervous system, Kidney, Liver, Respiratory system)  
May cause drowsiness or dizziness.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.(Ears, Liver, Kidney, Lungs, blood system)  
Causes damage to organs through prolonged or repeated exposure.(Central nervous system, Respiratory system, Nervous system)

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Toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

### 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.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Use personal protective equipment as required.  
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.  
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 if you feel unwell.  
IF exposed: 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 skin irritation 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.  
Collect spillage.

#### 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 be absorbed through the skin in harmful amounts. 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. This product contains a residual amount of a chemical substance that may cause an allergic skin and/or respiratory reaction. In elevated-temperature applications, product may release vapors that may produce cyanosis in the absence of sufficient ventilation or adequate respiratory protection. 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. May affect the gastrointestinal system. Ethylbenzene has been classified by IARC as a possible human carcinogen (Group 2B) and reported by NTP to show clear evidence for carcinogenicity in animals. IARC has designated Cumene to be in Group 2B - possibly carcinogenic to humans. 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. The nitrogen substituted aromatic

in this product gave positive results for mutagenicity in an Ames Assay study while two other mutagenicity studies proved negative.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Range
Xylene	1330-20-7	50 - 55 %
Ethyl benzene	100-41-4	10 - 15 %
Pseudocumene	95-63-6	5 - 10 %
Naphtha light aromatic	64742-95-6	5 - 10 %
Nitrogen substituted aromatic	PROPRIETARY	5 - 10 %
Carbon black	1333-86-4	1 - 5 %
Mesitylene	108-67-8	1 - 5 %
Cumene	98-82-8	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. 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. **WARNING:** Due to the combustible nature of the dried film of this product and the potential for smoldering or fire, the accumulation and buildup of the dried film on spray booth walls and floors, spindles, fixtures and other surfaces should be avoided, and any buildup should be removed. Keep the dried film accumulations away from sparks, friction, impact, high heat (>235 F/>112 C) or other sources of ignition. These conditions could cause the dried film to ignite very readily and quickly, and the resulting smoldering or fire may be difficult to extinguish. During removal of accumulation/buildup of this product, take precautions to avoid heat, friction and impact during the cleaning process. Use paint stripper, brass brush, or plastic scraper for cleaning. In the event of smoldering or a fire involving the dried product, Cold Fire®\*\* fire suppressing agent is preferred as the extinguishing medium. If Cold Fire® is not available, use water spray as the extinguishing medium. Take efforts to ensure that these agents reach the base of the smoldering or fire. Lord Corporation will not be responsible for personal injuries, property damage or any other damages arising from the accumulation (buildup, cleaning/removal or any related smoldering or fire) resulting from the use of this product. Refer to the Chemlok® Safe Handling Guide for additional information. **\*\*NOTE:** LORD Corporation has determined Cold Fire® fire suppressing agent to be effective in extinguishing fires involving dried Chemlok® adhesives. LORD does not recommend any particular equipment or system for use in delivering or applying Cold Fire® products. Customer is responsible for determining that Cold Fire® products and any delivery equipment or system is appropriate and effective for customer's specific needs. 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 breathing vapors. Use self-contained breathing equipment. Avoid contact. See Section 5 for cautionary information on the dried residue of this product.

**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. Contain and remove with inert absorbent material and non-sparking tools. Avoid contact. 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. 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. See Section 5 for cautionary information on handling of the dried residue of this product.

**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 oxidizers, acids, bases, water.

**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>
Xylene	100 ppm	150 ppm	435 mg/m3 100 ppm	N.E.	N.A.
Ethyl benzene	20 ppm	N.E.	435 mg/m3 100 ppm	N.E.	N.A.
Pseudocumene	25 ppm	N.E.	N.E.	N.E.	N.A.
Naphtha light aromatic	N.E.	N.E.	N.E.	N.E.	N.A.
Nitrogen substituted aromatic	N.E.	N.E.	N.E.	N.E.	N.A.
Carbon black	3 mg/m3	N.E.	3.5 mg/m3	N.E.	N.A.
Mesitylene	25 ppm	N.E.	N.E.	N.E.	N.A.
Cumene	50 ppm	N.E.	245 mg/m3 50 ppm	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. 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>	Black	<b>VAPOR DENSITY:</b>	Heavier than Air
<b>PHYSICAL STATE:</b>	Liquid	<b>LOWER EXPLOSIVE LIMIT:</b>	0.9 %(V)
<b>FLASH POINT:</b>	86 °F, 30 °C Setaflash	<b>UPPER EXPLOSIVE LIMIT:</b>	7 %(V)
	Closed Cup		
<b>BOILING RANGE:</b>	136 - 181 °C	<b>EVAPORATION RATE:</b>	Slower than n-butyl-acetate
<b>AUTOIGNITION TEMPERATURE:</b>	N.D.	<b>DENSITY:</b>	0.91 g/cm <sup>3</sup> - 7.57 lb/gal
<b>DECOMPOSITION TEMPERATURE:</b>	N.D.	<b>VISCOSITY, DYNAMIC:</b>	≥125 mPa.s @ 25 °C
<b>ODOR THRESHOLD:</b>	N.D.	<b>VISCOSITY, KINEMATIC:</b>	≥137 mm <sup>2</sup> /s @ 25 °C
<b>SOLUBILITY IN H<sub>2</sub>O:</b>	Insoluble	<b>VOLATILE BY WEIGHT:</b>	83.04 %
<b>pH:</b>	N.A.	<b>VOLATILE BY VOLUME:</b>	88.74 %
<b>FREEZE POINT:</b>	N.D.	<b>VOC CALCULATED:</b>	6.29 lb/gal, 753 g/l
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	N.D.	<b>METHOD 24:</b>	6.67 lb/gallon

**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.; For dried product issues, refer to Section 5 of the (M)SDS.

**INCOMPATIBILITY:** Strong oxidizers, acids, bases, water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition due to high temperatures or a fire causes the formation of irritating and/or toxic gases, organic vapors or fumes., Carbon dioxide, carbon monoxide, chlorine, hydrogen chloride, Phosgene, 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:**

<b>Chemical Name</b>	<b>LD50/LC50</b>
Xylene	Oral LD50: Rat 3,500 mg/kg Dermal LD50: Rabbit > 4,350 mg/kg Inhalation LC50: Rat 29.08 mg/l /4 h
Ethyl benzene	Oral LD50: Rat 3,500 mg/kg Dermal LD50: Rabbit 15,400 mg/kg Inhalation LC50: Rat 17.2 mg/l /4 h
Pseudocumene	Oral LD50: Rat 3,280 mg/kg Dermal LD50: Rabbit > 3,160 mg/kg Inhalation LC50: Rat 18 g/m3 /4 h
Naphtha light aromatic	Oral LD50: Rat 8,400 mg/kg Dermal LD50: Rabbit > 2,000 mg/kg Inhalation LC50: Rat 3400 ppm/4 h
Nitrogen substituted aromatic	Oral LD50: rat 1,100 mg/kg
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
Mesitylene	Oral LD50: Rat 5,000 mg/kg Inhalation LC50: Rat 24 g/m3 /4 h
Cumene	Oral LD50: Rat 1,400 mg/kg Dermal LD50: Rabbit 12300 µL/kg Inhalation LC50: Rat 39,000 mg/m3 /4 h Inhalation LC50: Rat >3577 ppm/6 h

**Germ cell mutagenicity:** No classification proposed

**Carcinogenicity:** Category 2 - Suspected of causing cancer.

Components contributing to classification: Ethyl benzene. Cumene.

**Reproductive toxicity:** Category 2 - Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.

Components contributing to classification: Xylene. Ethyl benzene. Toluene.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICITY:**

<b>Chemical Name</b>	<b>Ecotoxicity</b>
Xylene	<u>Fish:</u> Pimephales promelas 13.4 mg/196 h flow-through Oncorhynchus mykiss 2.661 - 4.093 mg/196 h Static Oncorhynchus mykiss 13.5 - 17.3 mg/196 h Lepomis macrochirus 13.1 - 16.5 mg/196 h flow-through Lepomis macrochirus 19 mg/196 h Lepomis macrochirus 7.711 - 9.591 mg/196 h Static Pimephales promelas 23.53 - 29.97 mg/196 h Static Cyprinus carpio 780 mg/196 h semi-static Cyprinus carpio > 780 mg/196 h Poecilia reticulata 30.26 - 40.75 mg/196 h Static <u>Invertebrates:</u> water flea 3.82 mg/148 h Gammarus lacustris 0.6 mg/148 h
Ethyl benzene	<u>Fish:</u> Oncorhynchus mykiss 11.0 - 18.0 mg/196 h Static Oncorhynchus mykiss 4.2 mg/196 h semi-static Pimephales promelas 7.55 - 11 mg/196 h flow-through Lepomis macrochirus 32 mg/196 h Static Pimephales promelas 9.1 - 15.6 mg/196 h Static Poecilia reticulata 9.6 mg/196 h Static <u>Invertebrates:</u> Daphnia magna 1.8 - 2.4 mg/148 h <u>Plants:</u> Pseudokirchneriella subcapitata 4.6 mg/172 h Pseudokirchneriella subcapitata > 438 mg/196 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/172 h Static Pseudokirchneriella subcapitata 1.7 - 7.6 mg/196 h Static
Pseudocumene	<u>Fish:</u> Pimephales promelas 7.19 - 8.28 mg/196 h flow-through

	<u>Invertebrates:</u> Daphnia magna 6.14 mg/148 h
Naphtha light aromatic	<u>Fish:</u> Oncorhynchus mykiss 9.22 mg/196 h <u>Invertebrates:</u> Daphnia magna 6.14 mg/148 h
Nitrogen substituted aromatic	N.D.
Carbon black	N.D.
Mesitylene	<u>Fish:</u> Pimephales promelas 3.48 mg/196 h
Cumene	<u>Fish:</u> Pimephales promelas 6.04 - 6.61 mg/196 h flow-through Oncorhynchus mykiss 4.8 mg/196 h flow-through Oncorhynchus mykiss 2.7 mg/196 h semi-static Poecilia reticulata 5.1 mg/196 h semi-static <u>Invertebrates:</u> Daphnia magna 0.6 mg/148 h Daphnia magna 7.9 - 14.1 mg/148 h Static <u>Plants:</u> Pseudokirchneriella subcapitata 2.6 mg/172 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. Waste streams, including the dried adhesive residue, resulting from the use of this product should be tested for RCRA characteristics, including ignitability, to determine any applicable waste classifications.

**14. TRANSPORT INFORMATION**

**US DOT Road**

**DOT Proper Shipping Name:** Adhesives  
**DOT Hazard Class:** 3  
**SECONDARY HAZARD:** None  
**DOT UN/NA Number:** 1133  
**Packing Group:** III  
**Emergency Response Guide Number:** 128

**IATA Cargo**

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

**IMDG**

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

The listed transportation classification applies to US DOT Road, IATA Cargo, and IMDG 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 % Less Than</u>
Xylene	1330-20-7	55.0 %
Ethyl benzene	100-41-4	15.0 %
Pseudocumene	95-63-6	10.0 %
Cumene	98-82-8	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

### 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 2

**Effective Date:** 11/21/2016

### 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.