

# USA Safety Data Sheet

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: CHEMLOK 217
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:** 09/28/2022

# 2. HAZARDS IDENTIFICATION

### **GHS CLASSIFICATION:**

Flammable liquids Category 2

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Skin sensitization Category 1 Carcinogenicity Category 2

Reproductive toxicity Category 2

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 1 Ears, Nervous System

Hazardous to the aquatic environment - acute hazard Category 2

Hazardous to the aquatic environment - chronic hazard 
Category 3

### **GHS LABEL ELEMENTS:**

# Symbol(s)







# Signal Word

DANGER

# **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause harm to breast-fed children.

Causes damage to organs.(Central nervous system, Kidney, Liver, Respiratory system)

May cause drowsiness or dizziness.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure. (Ears, Nervous System)

Toxic to aquatic life.

Harmful 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, 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

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 or rash 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.

#### 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. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. This product contains a residual amount of a chemical substance that may cause an allergic skin and/or respiratory reaction. May be harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

Chronic: May cause liver or kidney damage. May affect the gastrointestinal system. May affect the blood and blood-forming organs. 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 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

Hazardous ingredients above the threshold concentration

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Chemical Name	CAS Number	Range	
Methyl ethyl ketone	78-93-3	45 - 50 %	

Xylene	1330-20-7	15 - 20 %
Carbon black	1333-86-4	5 - 10 %
Ethyl benzene	100-41-4	1 - 5 %
Epoxy novolac resin	Proprietary	1 - 5 %
Acetone	67-64-1	0.1 - 0.9 %
Toluene	108-88-3	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. Notify appropriate authorities if necessary. Avoid contact. 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.

# 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

Page: 3

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 oxidizers, acids, bases, water.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# COMPONENT EXPOSURE LIMIT

Chemical Name	ACGIH TLV-	ACGIH TLV-	OSHA PEL-	OSHA PEL- CEILING	Skin
	TWA	STEL	TWA	CEILING	
Methyl ethyl ketone	200 ppm	300 ppm	590 mg/m3 200 ppm	N.E.	N.A.
Xylene	100 ppm	150 ppm	435 mg/m3 100 ppm	N.E.	N.A.
Carbon black	3 mg/m3	N.E.	3.5 mg/m3	N.E.	N.A.
Ethyl benzene	20 ppm	N.E.	435 mg/m3 100 ppm	N.E.	N.A.
Epoxy novolac resin	N.E.	N.E.	N.E.	N.E.	N.A.
Acetone	500 ppm	750 ppm	2,400 mg/m3 1,000 ppm	N.E.	N.A.
Toluene	20 ppm	N.E.	200 ppm	300 ppm	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. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, 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.

Page: 4

Product: CHEMLOK 217, Effective Date: 09/28/2022

> Odor: Solvent Vapor Pressure:

Vapor density: Appearance: Black Heavier than Air Physical state: Lower explosion limit: 1 %(V) Liquid

Flash point: 28 °F, -2 °C Setaflash Upper explosive limit: 13 %(V)

> Closed Cup 79 - 139 °C **Evaporation rate:**

**Boiling range:** Not applicable Autoignition temperature: N.D. 0.94 g/cm3 (7.78 lb/gal)

Viscosity, dynamic: **Decomposition temperature:** N.D. ≥75 mPa.s @ 25 °C **Odor threshold:** N.D. Viscosity, kinematic: ≥80 mm2/s @ 25 °C

Solubility in H2O: Insoluble Volatile by weight: 74.32 % Volatile by volume: pH: N.A. 84.89 %

Freeze point: **VOC Calculated:**  $5.78 \ lb/gal, \ 692 \ g/l$ N.D.

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 oxidizers, acids, bases, water.

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

# 11. TOXICOLOGICAL INFORMATION

**EXPOSURE PATH:** Refer to section 2 of this SDS.

**SYMPTOMS:** Refer to section 2 of this SDS.

# **TOXICITY MEASURES:**

Chemical Name	<u>LD50/LC50</u>
Methyl ethyl ketone	Oral LD50: Rat 2,483 mg/kg
	Dermal LD50: Rabbit 5,000 mg/kg
	Inhalation LC50: Rat 11700 ppm/4 h
Xylene	Oral LD50: Rat 3,500 mg/kg
	Dermal LD50: Rabbit > 4,350 mg/kg
	Inhalation LC50: Rat 29.08 mg/l /4 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 :
Ethyl benzene	Oral LD50: Rat 3,500 mg/kg
	Dermal LD50: Rabbit 15,400 mg/kg
	Inhalation LC50: Rat 17.4 mg/l/4 h
Epoxy novolac resin	N.D.
Acetone	Oral LD50: Rat 5,800 mg/kg
	Dermal LD50: Rabbit > 15,700 mg/kg
	Inhalation LC50: Rat 50,100 mg/m3 /8 h
Toluene	Oral LD50: Rat 2,600 mg/kg
	Dermal LD50: Rabbit 12,000 mg/kg
	Inhalation LC50: Rat 12.5 mg/l /4 h

Germ cell mutagenicity: No classification proposed

Carcinogenicity: Category 2 - Suspected of causing cancer. Components contributing to classification: Ethyl benzene. Product: CHEMLOK 217, Effective Date: 09/28/2022

**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. Acetone. Toluene.

# 12. ECOLOGICAL INFORMATION

# **ECOTOXICITY:**

Chemical Name	<b>Ecotoxicity</b>
Methyl ethyl ketone	Fish: Pimephales promelas 3,130 - 3,320 mg/l96 h Flow through
	Invertebrates: Daphnia magna > 520 mg/l48 h
	Daphnia magna 5,091 mg/l48 h
	Daphnia magna 4,025 - 6,440 mg/148 h Static
Xylene	Fish: Pimephales promelas 13.4 mg/l96 h Flow through
	Oncorhynchus mykiss 2.661 - 4.093 mg/l96 h Static
	Oncorhynchus mykiss 13.5 - 17.3 mg/l96 h
	Lepomis macrochirus 13.1 - 16.5 mg/l96 h Flow through
	Lepomis macrochirus 19 mg/l96 h
	Lepomis macrochirus 7.711 - 9.591 mg/l96 h Static
	Pimephales promelas 23.53 - 29.97 mg/l96 h Static
	Cyprinus carpio 780 mg/l96 h semi-static
	Cyprinus carpio > 780 mg/196 h
	Poecilia reticulata 30.26 - 40.75 mg/l96 h Static
	Invertebrates: water flea 3.82 mg/l48 h
C 1 11 1	Gammarus lacustris 0.6 mg/148 h
Carbon black	N.D.
Ethyl benzene	Fish: Oncorhynchus mykiss 11.0 - 18.0 mg/l96 h Static
	Oncorhynchus mykiss 4.2 mg/l96 h semi-static
	Pimephales promelas 7.55 - 11 mg/l96 h Flow through
	Lepomis macrochirus 32 mg/196 h Static
	Pimephales promelas 9.1 - 15.6 mg/l96 h Static
	Poecilia reticulata 9.6 mg/196 h Static
	Plants: Pseudokirchneriella subcapitata 4.6 mg/l72 h Pseudokirchneriella subcapitata > 438 mg/l96 h
E	N.D.
Epoxy novolac resin	
Acetone	Fish: Pimephales promelas 6,210 - 8,120 mg/l96 h Static
	Lepomis macrochirus 8,300 mg/l96 h
	Invertebrates: Daphnia magna 10,294 - 17,704 mg/148 h Static
T. 1	Daphnia magna 12,600 - 12,700 mg/l48 h  Fish: Pimephales promelas 15.22 - 19.05 mg/l96 h Flow through
Toluene	Pimephales prometas 12.6 mg/l96 h Static
	Oncorhynchus mykiss 5.89 - 7.81 mg/196 h Flow through
	Oncorhynchus mykiss 3.69 - 7.61 mg/196 h Flow through
	Oncorhynchus mykiss 5.8 mg/196 h semi-static
	Lepomis macrochirus 11.0 - 15.0 mg/196 h Static
	Oryzias latipes 54 mg/196 h Static
	Poecilia reticulata 28.2 mg/196 h semi-static
	Poecilia reticulata 50.87 - 70.34 mg/196 h Static
	Invertebrates: Daphnia magna 5.46 - 9.83 mg/148 h Static
	Daphnia magna 11.5 mg/148 h
	Plants: Pseudokirchneriella subcapitata > 433 mg/l96 h
	Pseudokirchneriella subcapitata 12.5 mg/172 h 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:3Secondary hazard:NoneUN/NA Number:1133Packing group:IIEmergency Response Guide Number:128

# IATA Cargo

Proper shipping name: ADHESIVES

### **IMDG**

**Proper shipping name:** ADHESIVES

Hazard Class:

Hazard class:

UN number:

Packing group:

EmS:

3

None

1133

II

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.:

Chemical Name	CAS Number	Weight percent less than
Xylene	1330-20-7	20.0 %
Ethyl benzene	100-41-4	5.0 %
Toluene	108-88-3	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

Page: 7

\* - Indicates a chronic hazard; see Section 2

**Revision:** Section 2, Section 3, Section 8, Section 11, Section 12

**Effective Date:** 09/28/2022

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