

USA SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name:

CHEMLOK 219

Product Use/Class:

Adhesive and/or Primer

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: 05/05/2017

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

Germ cell mutagenicity Category 2

Carcinogenicity Category 2

Reproductive toxicity Category 1A

Specific target organ systemic toxicity (single exposure) Category 1 Cardio-vascular system, Respiratory system,

Kidney, Nervous system, Central nervous system, retina, Systemic toxicity, Eyes

Specific target organ systemic toxicity (single exposure) Category 3

Specific target organ systemic toxicity (repeated exposure) Category 1 Body, Central nervous system,

Hematopoietic System, Cardio-vascular system, intestinal tract, Stomach, Digestive organs, Kidney, Liver, spleen,

thymus, Eyes, retina

Specific target organ systemic toxicity (repeated exposure) Category 2 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

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Suspected of causing cancer.

May damage fertility or the unborn child.

Causes damage to organs.(Cardio-vascular system, Respiratory system, Kidney, Nervous system, Central nervous

system, retina, Systemic toxicity, Eyes)

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure. (Body, Central nervous system, Hematopoietic System, Cardio-vascular system, intestinal tract, Stomach, Digestive organs, Kidney, Liver, spleen, thymus, Eyes,

May cause damage to organs through prolonged or repeated exposure (Nervous system)

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.

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.

Collect spillage.

Storage

Store in a well-ventilated place. Keep cool.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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. Harmful if absorbed through skin. Contains methanol; may be harmful or fatal if swallowed; ingestion of methanol may cause blindness or permanent eye damage. Cannot be made non-poisonous. Ingestion is not an expected route of entry in industrial or

Chronic: May cause long-term lung damage. May affect the gastrointestinal system. Prolonged or repeated contact may result in dermatitis. IARC has designated Methyl isobutyl ketone to be in Group 2B - possibly carcinogenic to humans. ACGIH considers Ethyl alcohol to be an A3 carcinogen (confirmed animal carcinogen with unknown relevance in humans).

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Range	
Ethyl alcohol	64-17-5	60 - 65 %	
Phenolic resin	9003-35-4	15 - 20 %	
Methanol	67-56-1	1 - 5 %	
Phenol	108-95-2	1 - 5 %	
Methyl isobutyl ketone	108-10-1	1 - 5 %	

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 and non-sparking tools.

7. HANDLING AND STORAGE

HANDLING: Cannot be made non-poisonous. 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

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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.; Alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT EXPOSURE LIMIT

MPONENT EXPOSUI Chemical Name	ACGIHTLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	Skin
Ethyl alcohol	N.E.	1,000 ppm	1,900 mg/m3 1,000 ppm	N.E.	N.A.
Phenolic resin	N.E.	N.E.	N.E.	N.E.	N.A.
Methanol	200 ppm	250 ppm	260 mg/m3 200 ppm	N.E.	S
Phenol	5 ppm	N.E.	19 mg/m3 5 ppm	N.E.	S
Methyl isobutyl ketone	50 ppm	75 ppm	410 mg/m3 100 ppm	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.

ODOR: APPEARANCE:

Solvent Amber Liquid

VAPOR PRESSURE: VAPOR DENSITY: LOWER EXPLOSIVE LIMIT: N.D. Heavier than Air 1.4 %(V)

PHYSICAL STATE: FLASH POINT:

58 °F, 14 °C Setaflash

UPPER EXPLOSIVE LIMIT:

36.5 %(V)

BOILING RANGE:

Closed Cup 65 - 117 °C

EVAPORATION RATE:

Slower than n-butylacetate

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AUTOIGNITION TEMPERATURE: DECOMPOSITION TEMPERATURE: N.D.

DENSITY: VISCOSITY, DYNAMIC: 0.87 g/cm3 - 7.25 lb/gal ≥50 mPa.s @ 25 °C

ODOR THRESHOLD:

N.D. N.D. Insoluble

VISCOSITY, KINEMATIC: **VOLATILE BY WEIGHT:** ≥57 mm2/s @ 25 °C

SOLUBILITY IN H2O: pH:

N.A.

74.54 %

FREEZE POINT:

N.D.

VOLATILE BY VOLUME: VOC CALCULATED: 83.45 % 5.44 lb/gal, 653 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 polymerization will not occur under normal conditions.

STABILITY: Product is stable under normal storage conditions.

CONDITIONS TO AVOID: High temperatures. Sources of ignition.; High humidity.

INCOMPATIBILITY: Strong acids, bases, and strong oxidizers.; Alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, Butyraldehyde, butyric acid, acrolein, crotonaldehyde.

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	
Ethyl alcohol	Oral LD50: Rat 7,060 mg/kg	
241,71 412 5111	Inhalation LC50: Rat 124.7 mg/l /4 h	
Phenolic resin	Oral LD50: Rat > 5 g/kg	
	Dermal LD50: Rat > 2 g/kg	
Methanol	Oral LD50: Rat 6,200 mg/kg	
112011111101	Dermal LD50: Rabbit 15,800 mg/kg	
	Inhalation LC50: Rat 22500 ppm/8 h	
Phenol	Oral LD50: Rat 340 mg/kg	
1 Honor	Dermal LD50: Rabbit 630 mg/kg	
	GHS LC50 (dust and mist): Acute toxicity point estimate 0.55 mg/l	
Methyl isobutyl ketone	Oral LD50: Rat 2,080 mg/kg	
**************************************	Dermal LD50: Rabbit 3,000 mg/kg	
	Inhalation LC50: Rat 8.2 mg/l /4 h	

Germ cell mutagenicity: Category 2 - Suspected of causing genetic defects.

Components contributing to classification: Phenol.

Carcinogenicity: Category 2 - Suspected of causing cancer.

Components contributing to classification: Methyl isobutyl ketone.

Reproductive toxicity: Category 1A - May damage fertility or the unborn child.

Components contributing to classification: Methanol. Phenol.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Chemical Name	Ecotoxicity
Ethyl alcohol	Fish: Pimephales promelas > 100 mg/l96 h Static Pimephales promelas 13,400 - 15,100 mg/l96 h flow-through

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	Invertebrates: Daphnia magna 9,268 - 14,221 mg/l48 h Daphnia magna 2 mg/l48 h Static	
Phenolic resin	N.D.	
Methanol	Fish: Pimephales promelas 28,200 mg/l96 h flow-through Pimephales promelas > 100 mg/l96 h Static Oncorhynchus mykiss 19,500 - 20,700 mg/l96 h flow-through Lepomis macrochirus 13,500 - 17,600 mg/l96 h flow-through	
Phenol	Fish: Pimephales promelas 20.5 - 25.6 mg/l96 h Static Pimephales promelas 32 mg/l96 h Oncorhynchus mykiss 5.449 - 6.789 mg/l96 h flow-through Oncorhynchus mykiss 5.449 - 6.789 mg/l96 h Static Oncorhynchus mykiss 4.23 - 7.49 mg/l96 h semi-static Oncorhynchus mykiss 4.20 - 12.0 mg/l96 h semi-static Oncorhynchus mykiss 5.0 - 12.0 mg/l96 h Lepomis macrochirus 13.5 mg/l96 h Static Lepomis macrochirus 11.9 - 25.3 mg/l96 h flow-through Lepomis macrochirus 11.5 mg/l96 h semi-static Poecilia reticulata 31 mg/l96 h semi-static Poecilia reticulata 31 mg/l96 h semi-static Brachydanio rerio 27.8 mg/l96 h oryzias latipes 23.4 - 36.6 mg/l96 h flow-through Oryzias latipes 23.4 - 36.6 mg/l96 h Static Pimephales promelas 11.9 - 50.5 mg/l96 h flow-through Invertebrates: Daphnia magna 4.24 - 10.7 mg/l48 h Static Daphnia magna 10.2 - 15.5 mg/l48 h Plants: Pseudokirchneriella subcapitata 46.42 mg/l96 h Desmodesmus subspicatus 187 - 279 mg/l72 h Static	
Methyl isobutyl ketone	Fish: Pimephales promelas 496 - 514 mg/l96 h flow-through Invertebrates: Daphnia magna 170 mg/l48 h Plants: Pseudokirchneriella subcapitata 400 mg/l96 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

US DOT Road

DOT Proper Shipping Name:

Adhesives

DOT Hazard Class:

SECONDARY HAZARD:

None

DOT UN/NA Number:

1133

Packing Group:

 Π

Emergency Response Guide Number:

128

IATA Cargo

PROPER SHIPPING NAME:

Adhesives

DOT Hazard Class: HAZARD CLASS:

None

UN-NUMBER:

1133

PACKING GROUP:

II

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EMS:

3L

IMDG

PROPER SHIPPING NAME:

Adhesives

DOT Hazard Class:

HAZARD CLASS:

None

UN-NUMBER:

1133

PACKING GROUP:

П

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.:

Chemical Name	CAS Number	Weight % Less Than
Methanol	67-56-1	5.0 %
Phenol	108-95-2	5.0 %
Methyl isobutyl ketone	108-10-1	5.0 %

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

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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.