

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **CHEMLOK 8210**
Product Use/Class: **Aqueous Adhesive**

LORD Corporation
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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: 12/02/2021

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

- Skin sensitization Category 1
- Respiratory sensitization Category 1
- Carcinogenicity Category 1B
- Reproductive toxicity Category 2
- Specific target organ systemic toxicity (single exposure) Category 2 blood system
- Specific target organ systemic toxicity (repeated exposure) Category 2 blood system
- Hazardous to the aquatic environment - acute hazard Category 3
- Hazardous to the aquatic environment - chronic hazard Category 3

GHS LABEL ELEMENTS:

Symbol(s)



Signal Word

DANGER

Hazard Statements

- May cause an allergic skin reaction.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause cancer.
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs.(blood system)
- May cause damage to organs through prolonged or repeated exposure.(blood system)
- Harmful to aquatic life.
- Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves.
- Use personal protective equipment as required.
- In case of inadequate ventilation wear respiratory protection.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.

Response

Get medical advice/attention if you feel unwell.
Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
Specific treatment (see supplemental first aid instructions on this label).
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing 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: 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. In elevated temperature applications, product may release vapors which have been shown to be harmful to lab animals when inhaled. May cause respiratory tract irritation. May cause eye irritation. 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: Repeated or prolonged solvent overexposure may result in permanent central nervous system damage. 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. The nitrogen substituted aromatic in this product gave positive results for mutagenicity in an Ames Assay study while two other mutagenicity studies proved negative. 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. IARC has identified the proprietary curative in this product as an "animal suspected" carcinogen, Group 3, which downgrades a previous NCI report of it as an "animal positive" carcinogen.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Range |
|---------------------------------------|-------------|-------------|
| Propylene glycol monomethylether | 107-98-2 | 1 - 5 % |
| Nitrogen substituted aromatic | PROPRIETARY | 1 - 5 % |
| Carbon black | 1333-86-4 | 0.1 - 0.9 % |
| Polyethylene glycol octylphenyl ether | 9036-19-5 | 0.1 - 0.9 % |
| Methylene chloride | 75-09-2 | 0.1 - 0.9 % |
| Ammonium persulfate | 7727-54-0 | 0.1 - 0.9 % |
| Curative | PROPRIETARY | 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. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion. **WARNING:** Due to the combustible nature of the dried film of this product and the potential for fire, accumulation/buildup of the dried film on spray booth walls and floors, spindles, fixtures, and other surfaces should be avoided. Keep dried film accumulation away from sparks, friction, high heat (>235 F/>112C) or other sources of ignition. If it becomes necessary to remove accumulation/buildup of this product, take precautions to avoid heat/friction/sparks during the cleaning process. Use paint stripper, brass brush, or plastic scraper for cleaning. In the event of a fire involving the dried product, use water as the extinguishing agent, ensuring that it reaches the base of the fire. Parker-LORD Corporation will not be responsible for personal injuries or property damages arising from the accumulation/buildup or cleaning/removal of the dried product. Refer to the Chemlok® Safe Handling Guide for additional information.

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 contact. Avoid breathing vapors. Use appropriate respiratory protection for large spills or spills in confined area. 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. 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.

7. HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation. See Section 5 for cautionary information on handling of the dried residue of this product.

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

INCOMPATIBILITY: Strong acids, bases, and strong oxidizers.

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> |
|---------------------------------------|----------------------|-----------------------|---------------------|-------------------------|-------------|
| Propylene glycol monomethylether | 100 ppm | 150 ppm | 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. |
| Polyethylene glycol octylphenyl ether | N.E. | N.E. | N.E. | N.E. | N.A. |
| Methylene chloride | 50 ppm | N.E. | 25 ppm | N.E. | N.A. |
| Ammonium persulfate | 0.1 mg/m3 | N.E. | N.E. | N.E. | N.A. |
| Curative | 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.

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. Note: If the exposure limit for formaldehyde is exceeded, a formaldehyde-specific, formaldehyde/organic vapor combination, or airline respirator may be required.

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: 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: | No | VAPOR PRESSURE: | N.D. |
| APPEARANCE: | Black | VAPOR DENSITY: | Heavier than Air |
| PHYSICAL STATE: | Liquid | LOWER EXPLOSIVE LIMIT: | 1.6 %(V) |
| FLASH POINT: | ≥ 201 °F, 93 °C | UPPER EXPLOSIVE LIMIT: | 22 %(V) |
| | Setaflash Closed Cup | EVAPORATION RATE: | Slower than n-butyl-acetate |
| BOILING RANGE: | 100 - 119 °C | DENSITY: | 1.13 g/cm ³ (9.40 lb/gal) |
| AUTOIGNITION TEMPERATURE: | ≥386 °C ASTM D1929-11 | VISCOSITY, DYNAMIC: | N.D. |
| DECOMPOSITION TEMPERATURE: | N.D. | VISCOSITY, KINEMATIC: | N.D. |
| ODOR THRESHOLD: | N.D. | VOLATILE BY WEIGHT: | 77.14 % |
| SOLUBILITY IN H₂O: | Soluble | VOLATILE BY VOLUME: | 83.44 % |
| pH: | 6.0 | VOC CALCULATED: | 1.86 lb/gal, 160 g/l |
| FREEZE POINT: | 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 polymerization will not occur under normal conditions.

STABILITY: Product is stable under normal storage conditions.

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY: Strong acids, bases, and strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: May contain CO, CO₂, oxides of nitrogen, oxides of sulfur, halogenated by-products, 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 |
|---------------------------------------|---|
| Propylene glycol monomethylether | Oral LD50: Rat 5,000 mg/kg Dermal LD50: Rabbit 13 g/kg GHS LC50 (vapour): Acute toxicity point estimate 11 mg/l GHS LC50 (dust and mist): Acute toxicity point estimate 1.5 mg/l Inhalation LC50: Rat >7559 ppm/6 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 : |
| Polyethylene glycol octylphenyl ether | Oral LD50: Rat 4,190 mg/kg Oral LD50: Rat 1,700 mg/kg |
| Methylene chloride | Oral LD50: Rat 1,600 mg/kg Dermal LD50: Rat > 2,000 mg/kg Inhalation LC50: Rat 76,000 mg/m ³ /4 h Inhalation LC50: Rat 53 mg/l /6 h |
| Ammonium persulfate | Oral LD50: Rat 495 mg/kg Dermal LD50: Rabbit > 10,000 mg/kg Inhalation LC50: Rat 520 mg/l /1 h |
| Curative | Oral LD50: Rat 464 mg/kg GHS LC50 (vapour): Acute toxicity point estimate 55 mg/l |

Germ cell mutagenicity: No classification proposed

Carcinogenicity: Category 1B - May cause cancer.

Components contributing to classification: Methylene chloride. Curative.

Reproductive toxicity: Category 2 - Suspected of damaging fertility or the unborn child.

Components contributing to classification: Methylene chloride. 2-Butoxyethanol.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

| Chemical Name | Ecotoxicity |
|---------------------------------------|--|
| Propylene glycol monomethylether | <u>Fish:</u> Pimephales promelas 20.8 g/196 h Static <u>Invertebrates:</u> Daphnia magna 23,300 mg/148 h |
| Nitrogen substituted aromatic | N.D. |
| Carbon black | N.D. |
| Polyethylene glycol octylphenyl ether | N.D. |
| Methylene chloride | <u>Fish:</u> Pimephales promelas 140.8 - 277.8 mg/196 h flow-through Pimephales promelas 262 - 855 mg/196 h Static Lepomis macrochirus 193 mg/196 h Static |

| | |
|---------------------|---|
| | Lepomis macrochirus 193 mg/196 h flow-through <u>Invertebrates:</u> Daphnia magna 1,532 - 1,847 mg/148 h Static Daphnia magna 190 mg/148 h <u>Plants:</u> Pseudokirchneriella subcapitata > 500 mg/196 h Pseudokirchneriella subcapitata > 500 mg/172 h |
| Ammonium persulfate | <u>Fish:</u> Lepomis macrochirus 103 mg/196 h Static Oncorhynchus mykiss 76.3 mg/196 h Static Poecilia reticulata 323 mg/196 h <u>Invertebrates:</u> Daphnia magna 120 mg/148 h |
| Curative | <u>Fish:</u> Danio rerio (zebra fish) 24 mg/196 h Static <u>Invertebrates:</u> Daphnia magna (Water flea) 3.5 mg/148 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

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> |
|----------------------|-------------------|---------------------------|
| Methylene chloride | 75-09-2 | 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:

| <u>Chemical Name</u> | <u>CAS Number</u> |
|----------------------|-------------------|
| Methylene chloride | 75-09-2 |

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: 1 PHYSICAL HAZARD: 0

* - Indicates a chronic hazard; see Section 2

Revision: Section 2, Section 3, Section 8, Section 9, Section 11, Section 12

Effective Date: 12/02/2021

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|-------------------|
| DISCLAIMER |
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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.