

# USA SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **LORD 201** 

Product Use/Class: Acrylic Adhesive, Part 1 of 2

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:** 11/10/2021

### 2. HAZARDS IDENTIFICATION

### **GHS CLASSIFICATION:**

Flammable liquids Category 2

Acute toxicity Oral Category 4 - 30.9% of the mixture consists of ingredient(s) of unknown toxicity.

Acute toxicity Inhalation - Dust and Mist Category 4 - 32.4% of the mixture consists of ingredient(s) of unknown

Acute toxicity Inhalation - Vapours Category 4 - 32.4% of the mixture consists of ingredient(s) of unknown toxicity.

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Skin sensitization Category 1

Respiratory sensitization Category 1

Carcinogenicity Category 2

Specific target organ systemic toxicity (single exposure) Category 3

Specific target organ systemic toxicity (single exposure) Category 1 Central nervous system, Hematopoietic

System, Respiratory system

Specific target organ systemic toxicity (repeated exposure) Category 1 uterus, Nervous system, Respiratory system,

Liver, Hematopoietic 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**

Highly flammable liquid and vapor.

Harmful if swallowed.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing cancer.

May cause drowsiness or dizziness.

May cause respiratory irritation.

Causes damage to organs.(Central nervous system, Hematopoietic System, Respiratory system)

Causes damage to organs through prolonged or repeated exposure.(uterus, Nervous system, Respiratory system,

Liver, Hematopoietic System)

Harmful 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.

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.

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.

Immediately 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Rinse mouth.

## 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:** Harmful if absorbed through skin. May cause headache and nausea. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma.

**Chronic:** Contains N,N-Dimethylaniline. Excessive overexposure by skin absorption or ingestion may result in anoxia due to the formation of methemoglobin. This condition impairs the blood's ability to transport oxygen. ACGIH considers molybdenum to be an A3 carcinogen (confirmed animal carcinogen with unknown relevance in humans).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Range
Methyl methacrylate	80-62-6	50 - 55 %
Methacrylic acid	79-41-4	5 - 10 %

Methacrylate phosphate ester	PROPRIETARY	1 - 5 %
N,N-Dimethylaniline	121-69-7	1 - 5 %
Amine curative	PROPRIETARY	1 - 5 %
Calcium molybdate	7789-82-4	0.1 - 0.9 %
Methacrylate monomer	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:** 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). 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. Using non-sparking tools, scoop the spilled material into a container for proper disposal. (If necessary, use inert absorbent material to aid in containing the spill).

### 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. 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:** Store only in well-ventilated areas. Keep container closed when not in use. Refer to OSHA 29CFR Part 1910.106 "Flammable and Combustible Liquids" for specific storage requirements.

**INCOMPATIBILITY:** Inorganic acids, organic acids, caustics, oxidizing agents, amines, peroxides.; Metals; Reducing agents; Acids and bases

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### COMPONENT EXPOSURE LIMIT

Chemical Name	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	Skin
Methyl methacrylate	50 ppm	100 ppm	410 mg/m3 100 ppm	N.E.	N.A.
Methacrylic acid	20 ppm	N.E.	N.E.	N.E.	S
Methacrylate phosphate ester	N.E.	N.E.	N.E.	N.E.	N.A.
N,N-Dimethylaniline	5 ppm	10 ppm	25 mg/m3 5 ppm	N.E.	S
Amine curative	N.E.	N.E.	N.E.	N.E.	N.A.
Calcium molybdate	3 mg/m3	N.E.	5 mg/m3	N.E.	N.A.
Methacrylate monomer	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. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating.

### PERSONAL PROTECTION MEASURES/EQUIPMENT:

**RESPIRATORY PROTECTION:** Contains a small amount of dimethylaniline (DMA)which has poor odorwarning properties. If the exposure limit for DMA is exceeded, an air-supplied respirator is recommended. Otherwise, a NIOSH approved properly-fitted organic vapor, air purifying respirator is recommended. 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. If contact with the product is prolonged or repeated, Silver Shield or Butyl rubber gloves are recommended.

**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. 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: Sweet VAPOR PRESSURE: N.D.

APPEARANCE: Off-white VAPOR DENSITY: Heavier than Air PHYSICAL STATE: Liquid LOWER EXPLOSIVE LIMIT: 1 %(V)
FLASH POINT: 65 °F, 18 °C Setaflash UPPER EXPLOSIVE LIMIT: 8.8 %(V)

Closed Cup

BOILING RANGE: N.A. EVAPORATION RATE: Faster than n-h

N.A. **EVAPORATION RATE:** Faster than n-butyl-acetate.

AUTOIGNITION TEMPERATURE: N.D. DENSITY: 1.04 g/cm3 (8.64 lb/gal)

DECOMPOSITION TEMPERATURE: N.D. VISCOSITY, DYNAMIC: N.D.

ODOR THRESHOLD: VISCOSITY, KINEMATIC: N.D. N.D. 0.04 % **SOLUBILITY IN H2O:** Insoluble **VOLATILE BY WEIGHT:** pH: N.A. **VOLATILE BY VOLUME:** 0.05 % FREEZE POINT: N.D. **VOC CALCULATED:** 0 lb/gal, 0 g/l COEFFICIENT OF WATER/OIL N.D. DISTRIBUTION:

NOTE: In normal use, the acrylate monomer in this product is considered to be non-volatile and is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC emitted is less than 5%. Actual emissions are a function of processing conditions. VOC is evaluated in combination with LORD Accelerator 17.

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:** The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution.; Storage above 100 degrees F and below 32 degrees F. Exposure to sunlight, ultraviolet light irradiation. Avoid dropping or puncture of containers.; Heat, flames and sparks.

**INCOMPATIBILITY:** Inorganic acids, organic acids, caustics, oxidizing agents, amines, peroxides.; Metals; Reducing agents; Acids 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	<u>LD50/LC50</u>
Methyl methacrylate	Oral LD50: Rat 8,420 - 10,000 mg/kg
	Dermal LD50: Rabbit > 5 g/kg
	Dermal LD50: Rabbit 5,000 - 7,500 mg/kg
	Inhalation LC50: Rat 78 mg/l /4 h Inhalation LC50: Rat 7093 ppm/4 h
Methacrylic acid	Oral LD50: Rat 1,060 mg/kg
	Dermal LD50: Rabbit 500 - 1,000 mg/kg
	GHS LC50 (vapour): Acute toxicity point estimate 11 mg/l GHS LC50
	(dust and mist): Acute toxicity point estimate 1.5 mg/l
Methacrylate phosphate ester	Oral LD50: rat > 5,000 mg/kg
N,N-Dimethylaniline	Oral LD50: Rat 951 mg/kg
	Dermal LD50: Rabbit 1,770 mg/kg
	GHS LC50 (vapour): Acute toxicity point estimate 3.0 mg/l
Amine curative	Oral LD50: Rat 25 mg/kg
	Dermal LD50: Rat > 2,000 mg/kg
Calcium molybdate	Dermal LD50: Rat > 2,000 mg/kg
	GHS LC50 (vapour): Acute toxicity point estimate 55 mg/l
Methacrylate monomer	Oral LD50: Rat 5,050 mg/kg
	Dermal LD50: Rabbit > 3,000 mg/kg

Germ cell mutagenicity: No classification proposed

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

Reproductive toxicity: No classification proposed

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## 12. ECOLOGICAL INFORMATION

## **ECOTOXICITY:**

Chemical Name	<u>Ecotoxicity</u>
Methyl methacrylate	Fish: Pimephales promelas 243 - 275 mg/l96 h flow-through
	Pimephales promelas 125.5 - 190.7 mg/l96 h Static
	Lepomis macrochirus 170 - 206 mg/l96 h flow-through
	Lepomis macrochirus 153.9 - 341.8 mg/l96 h Static
	Oncorhynchus mykiss > 79 mg/l96 h flow-through
	Oncorhynchus mykiss > 79 mg/l96 h Static
	Poecilia reticulata 326.4 - 426.9 mg/l96 h Static
	Invertebrates: Daphnia magna 69 mg/l48 h
	Plants: Pseudokirchneriella subcapitata 170 mg/l96 h
Methacrylic acid	Fish: Oncorhynchus mykiss 85 mg/l96 h flow-through
Methacrylate phosphate ester	Fish: Oncorhynchus mykiss > 112 mg/l96 h Static
N,N-Dimethylaniline	<u>Fish:</u> Pimephales promelas 52.6 mg/l96 h flow-through
-	Pimephales promelas 65.6 mg/l96 h
	Poecilia reticulata 53.7 mg/l96 h semi-static
	Brachydanio rerio 51.1 mg/l96 h semi-static
	Brachydanio rerio 0.183 - 0.186 mg/l96 h
	Invertebrates: Daphnia magna 5 mg/l48 h
	Plants: Desmodesmus subspicatus 340 mg/l96 h
Amine curative	Fish: Brachydanio rerio 17 mg/196 h Static
	Danio rerio 17 mg/l96 h Static
	Invertebrates: Daphnia magna (Water flea) 28.8 mg/l48 h Static
Calcium molybdate	N.D.
Methacrylate monomer	<u>Fish:</u> Pimephales promelas 213 - 242 mg/l96 h flow-through
	Pimephales promelas 227 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** 

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

IATA Cargo

PROPER SHIPPING NAME: Adhesives

Hazard Class: 3
HAZARD CLASS: None
UN NUMBER: 1133
PACKING GROUP: II
EMS: 3L

**IMDG** 

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**PROPER SHIPPING NAME:** Adhesives

Hazard Class:3HAZARD CLASS:NoneUN NUMBER:1133PACKING GROUP:IIEMS: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

Methyl methyl

 Methyl methacrylate
 80-62-6
 55.0 %

 N,N-Dimethylaniline
 121-69-7
 5.0 %

## 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: 1

\* - Indicates a chronic hazard; see Section 2

Revision: Company Logo

**Effective Date:** 11/10/2021

## DISCLAIMER

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