

USA SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LORD UX-9155 A

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

LORD Corporation
111 LORD Drive
Cory, NC 27511, 7023

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: 12/18/2020

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Acute toxicity OralCategory 4

Acute toxicity Dermal Category 3

Acute toxicity Inhalation - Dust and Mist Category 3 - 35.1% of the mixture consists of ingredient(s) of unknown toxicity

Acute toxicity Inhalation - Vapours Category 4

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 1B

Specific target organ systemic toxicity (single exposure) Category 3

Specific target organ systemic toxicity (single exposure) Category 1 Central nervous system, Liver, Kidney, Heart,

Eyes

Specific target organ systemic toxicity (repeated exposure) Category 2 Hematopoietic System, Nervous system,

Lungs, Bone marrow

Specific target organ systemic toxicity (repeated exposure) Category 1 Heart, Liver, Kidney

Hazardous to the aquatic environment - acute hazard Category 3

Hazardous to the aquatic environment - chronic hazard Category 2

GHS LABEL ELEMENTS:

Symbol(s)







Signal Word

DANGER

Hazard Statements

Harmful if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

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.

May cause drowsiness or dizziness.

May cause respiratory irritation.

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

May cause damage to organs through prolonged or repeated exposure. (Hematopoietic System, Nervous system,

Lungs, Bone marrow)

Causes damage to organs through prolonged or repeated exposure.(Heart, Liver, Kidney)

Harmful to aquatic life.

Toxic 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/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

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: Wash with plenty of soap and water.

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.

Rinse mouth.

Remove/Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

Collect spillage.

Storage

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: May be absorbed through the skin in harmful amounts. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma.

Chronic: Prolonged or repeated contact may result in dermatitis. 4,4'Methylenedianiline (MDA) has been classified by IARC and NTP as an experimental animal carcinogen, and by OSHA as a potential human carcinogen. Use of this product should comply with the OSHA Methylenedianiline Standard, 29CFR1910.1050.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Range
4,4'-Methylenedianiline	101-77-9	60 - 65 %
N-Methyl pyrrolidone	872-50-4	30 - 35 %

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.

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 breathing vapors. Use self-contained breathing equipment. Avoid contact.

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. Scoop spilled material into an appropriate 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. 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.

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

INCOMPATIBILITY: Strong acids, bases, and strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT EXPOSURE LIMIT

Chemical Name	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	<u>Skin</u>
4,4'-Methylenedianiline	0.1 ppm	N.E.	0.01 ppm	N.E.	S
N-Methyl pyrrolidone	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 air-purifying organic vapor respirator 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: 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: Slight VAPOR PRESSURE: N.D.
APPEARANCE: Amber VAPOR DENSITY: Heavier than Air
PHYSICAL STATE: Liquid LOWER EXPLOSIVE LIMIT: 1.3 %(V)

FLASH POINT: ≥ 201 °F, 93 °C UPPER EXPLOSIVE LIMIT: 9.5 %(V) Setaflash Closed Cup

BOILING RANGE: 202 °C EVAPORATION RATE: Slower than n-butyl-

acetate

 AUTOIGNITION TEMPERATURE:
 N.D.
 DENSITY:
 1.01 g/cm3 (8.40 lb/gal)

 DECOMPOSITION TEMPERATURE:
 N.D.
 VISCOSITY, DYNAMIC:
 ≥130 mPa.s @ 25 °C

 ODOR THRESHOLD:
 N.D.
 VISCOSITY, KINEMATIC:
 ≥79 mm2/s @ 25 °C

SOLUBILITY IN H2O: Insoluble VOLATILE BY WEIGHT: 34.90 % PH: N.A. VOLATILE BY VOLUME: 37.99 %

FREEZE POINT: N.D. VOC CALCULATED: 3.27 lb/gal, 391 g/l

COEFFICIENT OF WATER/OIL N.D.

DISTRIBUTION:

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: Carbon monoxide, carbon dioxide, organic or inorganic nitrogen compounds including traces of hydrogen cyanide

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>	
4,4'-Methylenedianiline	Oral LD50: Rat 264 mg/kg	
	Dermal LD50: Rabbit 200 mg/kg	
	Inhalation LC50: Rat > 0.837 mg/l /4 h	
N-Methyl pyrrolidone	Oral LD50: Rat 3,914 mg/kg	
	Dermal LD50: Rabbit 8 g/kg	
	Inhalation LC50: Acute toxicity point estimate 11 mg/l	

Germ cell mutagenicity: Category 2 - Suspected of causing genetic defects. Components contributing to classification: 4,4'-Methylenedianiline.

Carcinogenicity: Category 2 - Suspected of causing cancer.

Components contributing to classification: 4,4'-Methylenedianiline.

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

Components contributing to classification: 4,4'-Methylenedianiline. N-Methyl pyrrolidone.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

<u>Chemical Name</u>	Ecotoxicity
4,4'-Methylenedianiline	Fish: Brachydanio rerio 42 mg/l96 h Static
	Plants: Desmodesmus subspicatus 21 mg/l72 h
N-Methyl pyrrolidone	Fish: Lepomis macrochirus 832 mg/l96 h Static
	Pimephales promelas 1,072 mg/l96 h Static
	Poecilia reticulata 1,400 mg/l96 h Static
	Invertebrates: Daphnia magna 4,897 mg/148 h
	Plants: Desmodesmus subspicatus > 500 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.

14. TRANSPORT INFORMATION

US DOT Road

Proper Shipping Name: Toxic liquids, organic, n.o.s.

Hazard Class: 6.1
SECONDARY HAZARD: None
UN/NA Number: 2810
Packing Group: III
Emergency Response Guide Number: 153

IATA Cargo

PROPER SHIPPING NAME: Toxic liquid, organic, n.o.s.

Hazard Class: 6.1
HAZARD CLASS: None
UN NUMBER: 2810
PACKING GROUP: III

EMS: 6L

IMDG

PROPER SHIPPING NAME: Toxic liquid, organic, n.o.s.

Hazard Class: 6.1
HAZARD CLASS: None
UN NUMBER: 2810
PACKING GROUP: III
EMS: F-A

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
4,4'-Methylenedianiline	101-77-9	65.0 %
N-Methyl pyrrolidone	872-50-4	35.0 %

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: 1 PHYSICAL HAZARD: 1

* - Indicates a chronic hazard; see Section 2

Revision: Section 2, Section 11

Effective Date: 12/18/2020

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.