

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **FUSOR 2098 CRASH DURABLE STRUCTURAL ADH PT A**
Product Use/Class: **Adhesive, Part A**
Reference: .

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: 03/06/2020

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATION:**

Serious eye damage/eye irritation Category 1
Skin sensitization Category 1
Reproductive toxicity Category 2
Specific target organ systemic toxicity (single exposure) Category 1 Respiratory system
Specific target organ systemic toxicity (repeated exposure) Category 2 Kidney, Liver, Respiratory system
Hazardous to the aquatic environment - acute hazard Category 3

GHS LABEL ELEMENTS:**Symbol(s)****Signal Word**

DANGER

Hazard Statements

Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
Causes damage to organs.(Respiratory system)
May cause damage to organs through prolonged or repeated exposure.(Kidney, Liver, Respiratory system)
Harmful to aquatic life.

Precautionary Statements**Prevention**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/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.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.

Response

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Immediately call a POISON CENTER or doctor/physician.
Specific treatment (see supplemental first aid instructions on this label).
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
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: May cause respiratory tract irritation. This product contains 1,6-Hexanediol diglycidyl ether, which is subject to a Significant New Use Rule (SNUR) under the Toxic Substances Control Act. For additional information, please refer to 40 CFR 721.5575. May cause skin irritation.

Chronic: Prolonged or repeated contact may result in dermatitis. Prolonged exposure to the silica-containing sanding dust of this product could cause long-term lung damage. Crystalline silica is classified by IARC and NTP as a known human carcinogen as a respirable dust. The silica in LORD products is not in a form that can be inhaled and presents no risk to the end user. No exposure is expected during normal use of this product. Sanding or abrading the cured materials is not recommended. Wear appropriate respiratory protection if exposure to dusts is possible.

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| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
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| Chemical Name | CAS Number | Range |
|---------------------------------|-------------|-------------|
| Epoxy resin | PROPRIETARY | 45 - 50 % |
| 1,6-Hexanediol diglycidyl ether | 16096-31-4 | 5 - 10 % |
| Hexaoxa-silaheptadecane | 88127-84-8 | 5 - 10 % |
| Bisphenol A | 80-05-7 | 1 - 5 % |
| Crystalline silica | 14808-60-7 | 0.1 - 0.9 % |
| Cashew nutshell liquid | 8007-24-7 | 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.

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| 4. FIRST AID MEASURES |
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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.

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| 5. FIRE-FIGHTING MEASURES |
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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 contact. Avoid breathing vapors. Use appropriate respiratory protection for large spills or spills in confined area.

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). This product contains 1,6-Hexanediol diglycidyl ether, which is subject to a Significant New Use Rule (SNUR) under the Toxic Substances Control Act. It is believed to be toxic in an aquatic environment. Releases to water streams are prohibited. All internal waste streams, residues and spills of uncured material must be collected and incinerated.

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. This product contains 1,6-Hexanediol diglycidyl ether, which is subject to a Significant New Use Rule (SNUR) under the Toxic Substances Control Act. For additional information, please refer to 40 CFR 721.5575.

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

INCOMPATIBILITY: Amines, acids, water, hydroxyl, or active hydrogen compounds.; 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> |
|---------------------------------|----------------------|-----------------------|---------------------|-------------------------|-------------|
| Epoxy resin | N.E. | N.E. | N.E. | N.E. | N.A. |
| 1,6-Hexanediol diglycidyl ether | N.E. | N.E. | N.E. | N.E. | N.A. |
| Hexaoxa-silaheptadecane | N.E. | N.E. | N.E. | N.E. | N.A. |
| Bisphenol A | N.E. | N.E. | N.E. | N.E. | N.A. |
| Crystalline silica | 0.05 mg/m3 | N.E. | N.E. | N.E. | N.A. |
| Cashew nutshell liquid | 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. This

product contains 1,6-Hexanediol diglycidyl ether, which is subject to a Significant New Use Rule (SNUR) under the Toxic Substances Control Act. The employer must demonstrate that respiratory protection is provided this includes a NIOSH approved respirator to prevent inhalation exposure. For additional information, please refer to 40 CFR 721.5575.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact. This product contains 1,6-Hexanediol diglycidyl ether, which is subject to a Significant New Use Rule (SNUR) under the Toxic Substances Control Act. The employer must demonstrate that each item of chemical protective clothing selected, including gloves, provides an impervious barrier to prevent dermal exposure. For additional information, please refer to 40 CFR 721.5575.

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.

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| ODOR: | Odorless | VAPOR PRESSURE: | N.D. |
| APPEARANCE: | Blue | VAPOR DENSITY: | Heavier than Air |
| PHYSICAL STATE: | Paste | LOWER EXPLOSIVE LIMIT: | Not Applicable |
| FLASH POINT: | ≥ 201 °F, 93 °C | UPPER EXPLOSIVE LIMIT: | Not Applicable |
| | Setaflash Closed Cup | | |
| BOILING RANGE: | N.A. | EVAPORATION RATE: | Not Applicable |
| AUTOIGNITION TEMPERATURE: | N.D. | DENSITY: | 1.2 g/cm ³ - 10.00 lb/gal |
| DECOMPOSITION TEMPERATURE: | N.D. | VISCOSITY, DYNAMIC: | N.D. |
| ODOR THRESHOLD: | N.D. | VISCOSITY, KINEMATIC: | N.D. |
| SOLUBILITY IN H₂O: | Insoluble | VOLATILE BY WEIGHT: | 0.00 % |
| pH: | N.A. | VOLATILE BY VOLUME: | 0.00 % |
| FREEZE POINT: | N.D. | VOC CALCULATED: | 0 lb/gal, 0 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.

INCOMPATIBILITY: Amines, acids, water, hydroxyl, or active hydrogen compounds.; Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes

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 |
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| Epoxy resin | GHS LD50: rat > 15,000 mg/kg GHS LD50: rabbit 23,000 mg/kg |
| 1,6-Hexanediol diglycidyl ether | GHS LD50: rat 3,741 mg/kg GHS LD50: rat > 2,000 mg/kg |
| Hexaoxa-silaheptadecane | N.D. |
| Bisphenol A | Oral LD50: Rat 3,300 mg/kg Dermal LD50: Rabbit 3 mL/kg Inhalation LC50: Rat > 170 mg/m3 /6 h |
| Crystalline silica | N.D. |
| Cashew nutshell liquid | Oral LD50: Rat > 1,000 mg/kg LD50: rat > 2,000 mg/kg |

Germ cell mutagenicity: No classification proposed

Carcinogenicity: No classification proposed

Reproductive toxicity: Category 2 - Suspected of damaging fertility or the unborn child.
Components contributing to classification: Bisphenol A.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

| Chemical Name | Ecotoxicity |
|---------------------------------|--|
| Epoxy resin | <u>Fish:</u> Oncorhynchus mykiss 2 mg/196 h semi-static <u>Invertebrates:</u> Daphnia magna 1.8 mg/148 h Static <u>Plants:</u> Selenastrum capricornutum 11 mg/172 h Static |
| 1,6-Hexanediol diglycidyl ether | <u>Fish:</u> Oncorhynchus mykiss 30 mg/196 h semi-static <u>Invertebrates:</u> Daphnia magna 47 mg/124 h Static |
| Hexaoxa-silaheptadecane | N.D. |
| Bisphenol A | <u>Fish:</u> Pimephales promelas 3.6 - 5.4 mg/196 h flow-through Pimephales promelas 4.0 - 5.5 mg/196 h Static Oncorhynchus mykiss 4 mg/196 h Brachydanio rerio 9.9 mg/196 h Static <u>Invertebrates:</u> Daphnia magna 10.2 mg/148 h Daphnia magna 3.9 mg/148 h Daphnia magna 9.2 - 11.4 mg/148 h Static <u>Plants:</u> Pseudokirchneriella subcapitata 2.5 mg/196 h |
| Crystalline silica | N.D. |
| Cashew nutshell liquid | N.D. |

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.

ADDITIONAL ECOLOGICAL INFORMATION: This material is subject to a Significant New Use Rule (SNUR) under the Toxic Substances Control Act. It is believed to be toxic in an aquatic environment. Releases to surface water are prohibited.

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: Environmentally hazardous substances, solid, n.o.s.

Hazard Class: 9
SECONDARY HAZARD: None
UN/NA Number: 3077
Packing Group: III
Emergency Response Guide Number: 171

For US DOT non-bulk road shipments this material may be classified as NOT REGULATED. For the most accurate shipping information, refer to your transportation/compliance department regarding changes in package size, mode of shipment or other regulatory descriptors.

IATA Cargo

PROPER SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s.
Hazard Class: 9
HAZARD CLASS: None
UN NUMBER: 3077
PACKING GROUP: III
EMS: 9L

IMDG

PROPER SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s.
Hazard Class: 9
HAZARD CLASS: None
UN NUMBER: 3077
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.

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| 15. REGULATORY INFORMATION |
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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> |
|----------------------|-------------------|---------------------------|
| Bisphenol A | 80-05-7 | 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:

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| 16. OTHER INFORMATION |
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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: Company Logo

Effective Date: 03/06/2020

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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.