

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **FUSOR 110B, 111B METAL BONDING ADH PT A**  
 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:** 04/06/2022

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATION:

Flammable liquids Category 2  
 Acute toxicity Oral Category 4 - 49.5% of the mixture consists of ingredient(s) of unknown toxicity.  
 Acute toxicity Dermal Category 4 - 53.7% of the mixture consists of ingredient(s) of unknown toxicity.  
 Acute toxicity Inhalation - Vapours Category 5  
 Skin corrosion/irritation Category 1B  
 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 Hematopoietic System, Respiratory system, Nervous 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 in contact with skin.  
 May be harmful if inhaled.  
 Causes severe skin burns and eye damage.  
 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 respiratory irritation.  
 May cause drowsiness or dizziness.

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Causes damage to organs.(Central nervous system, Hematopoietic System, Respiratory system)  
Causes damage to organs through prolonged or repeated exposure.(Hematopoietic System, Respiratory system, Nervous 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.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Wash contaminated clothing before reuse.

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

**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. 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 Parker 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.

|                                                  |
|--------------------------------------------------|
| <b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b> |
|--------------------------------------------------|

| Chemical Name                | CAS Number  | Range       |
|------------------------------|-------------|-------------|
| Methyl methacrylate          | 80-62-6     | 30 - 35 %   |
| Methacrylate blend           | PROPRIETARY | 1 - 5 %     |
| Methacrylate phosphate ester | PROPRIETARY | 1 - 5 %     |
| Methacrylic acid             | 79-41-4     | 1 - 5 %     |
| Amine curative               | PROPRIETARY | 1 - 5 %     |
| N,N-Dimethylaniline          | 121-69-7    | 1 - 5 %     |
| Crystalline silica           | 14808-60-7  | 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.

## 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/m <sup>3</sup><br>100 ppm | N.E.             | N.A. |
| Methacrylate blend           | N.E.                   | N.E.           | N.E.                             | N.E.             | N.A. |
| Methacrylate phosphate ester | N.E.                   | N.E.           | N.E.                             | N.E.             | N.A. |
| Methacrylic acid             | 20 ppm                 | N.E.           | N.E.                             | N.E.             | S    |
| Amine curative               | N.E.                   | N.E.           | N.E.                             | N.E.             | N.A. |
| N,N-Dimethylaniline          | 5 ppm                  | 10 ppm         | 25 mg/m <sup>3</sup><br>5 ppm    | N.E.             | S    |
| Crystalline silica           | 0.05 mg/m <sup>3</sup> | N.E.           | N.E.                             | 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 odor-warning 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.

|                        |                                      |                               |                  |
|------------------------|--------------------------------------|-------------------------------|------------------|
| <b>ODOR:</b>           | Sweet                                | <b>VAPOR PRESSURE:</b>        | N.D.             |
| <b>APPEARANCE:</b>     | Off-white                            | <b>VAPOR DENSITY:</b>         | Heavier than Air |
| <b>PHYSICAL STATE:</b> | Paste                                | <b>LOWER EXPLOSIVE LIMIT:</b> | 1 %(V)           |
| <b>FLASH POINT:</b>    | 59 °F, 15 °C Setaflash<br>Closed Cup | <b>UPPER EXPLOSIVE LIMIT:</b> | 8.8 %(V)         |

|                                               |           |                              |                                      |
|-----------------------------------------------|-----------|------------------------------|--------------------------------------|
| <b>BOILING RANGE:</b>                         | N.A.      | <b>EVAPORATION RATE:</b>     | Slower than n-butyl-acetate          |
| <b>AUTOIGNITION TEMPERATURE:</b>              | N.D.      | <b>DENSITY:</b>              | 1.12 g/cm <sup>3</sup> (9.30 lb/gal) |
| <b>DECOMPOSITION TEMPERATURE:</b>             | N.D.      | <b>VISCOSITY, DYNAMIC:</b>   | N.D.                                 |
| <b>ODOR THRESHOLD:</b>                        | N.D.      | <b>VISCOSITY, KINEMATIC:</b> | N.D.                                 |
| <b>SOLUBILITY IN H<sub>2</sub>O:</b>          | Insoluble | <b>VOLATILE BY WEIGHT:</b>   | 0.04 %                               |
| <b>pH:</b>                                    | N.A.      | <b>VOLATILE BY VOLUME:</b>   | 0.04 %                               |
| <b>FREEZE POINT:</b>                          | N.D.      | <b>VOC CALCULATED:</b>       | 0 lb/gal, 0 g/l                      |
| <b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b> | 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:** Storage above 100 degrees F and below 32 degrees F. Exposure to sunlight, ultraviolet light irradiation. Avoid dropping or puncture of containers.

**INCOMPATIBILITY:** Inorganic acids, organic acids, caustics, oxidizing agents, amines, peroxides.

**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:

| <b>Chemical Name</b>         | <b>LD50/LC50</b>                                                                                                                                                                                 |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methyl methacrylate          | Oral LD50: Rat 8,420 - 10,000 mg/kg<br>Dermal LD50: Rabbit > 5 g/kg<br>Dermal LD50: Rabbit 5,000 - 7,500 mg/kg<br>Inhalation LC50: Rat 78 mg/l /4 h Inhalation LC50: Rat 29.8 mg/l /4 h          |
| Methacrylate blend           | Oral LD50: rat > 5,000 mg/kg<br>Dermal LD50: rat > 2,000 mg/kg<br>Dermal LD50: Rat > 2,000 mg/kg<br>Inhalation LC50: Mouse 55 mg/l /3 h                                                          |
| Methacrylate phosphate ester | Oral LD50: rat > 5,000 mg/kg                                                                                                                                                                     |
| Methacrylic acid             | Oral LD50: Rat 1,060 mg/kg<br>Dermal LD50: Rabbit 500 - 1,000 mg/kg<br>GHS LC50 (vapour): Acute toxicity point estimate 11 mg/l GHS LC50 (dust and mist): Acute toxicity point estimate 1.5 mg/l |
| Amine curative               | Oral LD50: Rat 25 mg/kg<br>Dermal LD50: Rat > 2,000 mg/kg                                                                                                                                        |
| N,N-Dimethylaniline          | Oral LD50: Rat 951 mg/kg<br>Dermal LD50: Rabbit 1,770 mg/kg<br>GHS LC50 (vapour): Acute toxicity point estimate 3.0 mg/l                                                                         |
| Crystalline silica           | N.D.                                                                                                                                                                                             |
| Methacrylate monomer         | Oral LD50: Rat 5,050 mg/kg<br>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

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

| Chemical Name                | Ecotoxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methyl methacrylate          | <u>Fish:</u> Pimephales promelas 243 - 275 mg/196 h flow-through<br>Pimephales promelas 125.5 - 190.7 mg/196 h Static<br>Lepomis macrochirus 170 - 206 mg/196 h flow-through<br>Lepomis macrochirus 153.9 - 341.8 mg/196 h Static<br>Oncorhynchus mykiss > 79 mg/196 h flow-through<br>Oncorhynchus mykiss > 79 mg/196 h Static<br>Poecilia reticulata 326.4 - 426.9 mg/196 h Static<br><u>Invertebrates:</u> Daphnia magna 69 mg/148 h<br><u>Plants:</u> Pseudokirchneriella subcapitata 170 mg/196 h |
| Methacrylate blend           | <u>Fish:</u> Danio rerio 590 mg/196 h flow-through                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Methacrylate phosphate ester | <u>Fish:</u> Oncorhynchus mykiss > 112 mg/196 h Static                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Methacrylic acid             | <u>Fish:</u> Oncorhynchus mykiss 85 mg/196 h flow-through                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Amine curative               | <u>Fish:</u> Brachydanio rerio 17 mg/196 h Static<br>Danio rerio 17 mg/196 h Static<br><u>Invertebrates:</u> Daphnia magna (Water flea) 28.8 mg/148 h Static                                                                                                                                                                                                                                                                                                                                           |
| N,N-Dimethylaniline          | <u>Fish:</u> Pimephales promelas 52.6 mg/196 h flow-through<br>Pimephales promelas 65.6 mg/196 h<br>Poecilia reticulata 53.7 mg/196 h semi-static<br>Brachydanio rerio 51.1 mg/196 h semi-static<br>Brachydanio rerio 0.183 - 0.186 mg/196 h<br><u>Invertebrates:</u> Daphnia magna 5 mg/148 h<br><u>Plants:</u> Desmodium subspicatus 340 mg/196 h                                                                                                                                                    |
| Crystalline silica           | N.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Methacrylate monomer         | <u>Fish:</u> Pimephales promelas 213 - 242 mg/196 h flow-through<br>Pimephales promelas 227 mg/196 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

**PROPER SHIPPING NAME:** Adhesives  
**Hazard Class:** 3  
**HAZARD CLASS:** None  
**UN NUMBER:** 1133  
**PACKING GROUP:** II  
**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.:

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Weight % Less Than</u> |
|----------------------|-------------------|---------------------------|
| Methyl methacrylate  | 80-62-6           | 35.0 %                    |
| 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:** Section 2, Section 12

**Effective Date:** 04/06/2022

#### 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.