

# MATERIAL SAFETY DATA SHEET

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: FUSOR 120, T20, T21 COMPOSITE ADH PT A

Product Use/Class: ADHESIVE

LORD Corporation 111 LORD Drive Cary, NC 27511-7923

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: 08/25/2014** 

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	Skin
Epoxy resin	PROPRIETARY	70.0 %	N.E.	N.E.	N.E.	N.E.	N.A.
Titanium dioxide	13463-67-7	1.0 %	10 mg/m3	N.E.	15 mg/m3	N.E.	N.A.

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

#### 3. HAZARDS IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*: White Liquid, with Mild odor. May cause skin and eye irritation. May cause allergic skin reaction. May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** May cause allergic skin reaction. May cause skin irritation.

**EFFECTS OF OVEREXPOSURE - INHALATION:** May cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Prolonged or repeated contact may result in dermatitis. IARC has designated titanium dioxide (TiO2) as Group 2B – possibly carcinogenic to humans in dust form. However, a number of long term animal studies and human epidemiology studies evaluating TiO2 and workplace exposure show insufficient evidence for carcinogenic affects. EPA, NTP and OSHA do not designate TiO2 as a carcinogen and ACGIH designates TiO2 as A4 - not classifiable as a human carcinogen. TiO2 is not present in this product as a dust and no airborne exposure is expected during application.

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Inhalation, Ingestion, Eye Contact

## 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.

300000005398

Product: FUSOR 120, T20, T21 COMPOSITE ADH PT A, Effective Date: 08/25/2014

**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

**FLASH POINT:** ≥ 201 °F, 93 °C **LOWER EXPLOSIVE LIMIT (%):** Not Applicable Setaflash Closed Cup **UPPER EXPLOSIVE LIMIT (%):** Not Applicable

**AUTOIGNITION TEMPERATURE: N.D.** 

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** 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 FIREFIGHTING PROCEDURES:** Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Avoid breathing vapors. Notify appropriate authorities if necessary. Avoid contact. Use appropriate respiratory protection for large spills or spills in confined area. Keep non-essential personnel away from spill area. 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. 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

**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. Observe OSHA regulations (29CFR 1910.134) for respirator use.

**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:** 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.

Product: FUSOR 120, T20, T21 COMPOSITE ADH PT A, Effective Date: 08/25/2014

# 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mild BOILING RANGE: N.A. APPEARANCE: White VAPOR PRESSURE: N.D.

PHYSICAL STATE: Liquid VAPOR DENSITY: Heavier than Air ODOR THRESHOLD: N.D. EVAPORATION RATE: Slower than n-butyl-

acetate

SOLUBILITY IN H2O: Insoluble DENSITY, LB/GL: 11.8110 lb/gal

pH: N.A. VOLATILE BY WEIGHT: 0.11 % FREEZE POINT: N.D. VOLATILE BY VOLUME: 0.11 %

COEFFICIENT OF WATER/OIL N.D.

**DISTRIBUTION:** 

(See section 16 for abbreviation legend)

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** High temperatures.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

**STABILITY:** Product is stable under normal storage conditions.

# 11. TOXICOLOGICAL INFORMATION

PRODUCT LD50(ORAL)<br/>(DERMAL)No Data<br/>No DataPRODUCT LC50No Data

# 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information

# 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 US DOT Road, IATA Cargo or IMDG 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 -

This product is considered hazardous as defined by 29 CFR 1910.1200 (OSHA HazCom Standard.)

Product: FUSOR 120, T20, T21 COMPOSITE ADH PT A, Effective Date: 08/25/2014

#### **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.:

**NONE** 

## 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

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 1 PHYSICAL HAZARD: 0

\* - Indicates a chronic hazard; see Section 3

#### **VOLATILE ORGANIC COMPOUNDS**

Calculated: 0.01 lb/gal, 2 g/l

**Revision:** Section 1

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

# **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.



# MATERIAL SAFETY DATA SHEET

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: FUSOR 120, T20, T21 COMPOSITE ADH PT B

Product Use/Class: STRUCTURAL EPOXY

LORD Corporation 111 LORD Drive Cary, NC 27511-7923

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: 08/25/2014

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	Skin
Polyamide resin	PROPRIETARY	20.0 %	N.E.	N.E.	N.E.	N.E.	N.A.
Phenol	108-95-2	10.0 %	5 ppm	N.E.	19 mg/m3 5 ppm	N.E.	S
Amine compound	PROPRIETARY	5.0 %	1 ppm	N.E.	N.E.	N.E.	S
Amine compound	PROPRIETARY	5.0 %	N.E.	N.E.	N.E.	N.E.	N.A.
Amine compound	PROPRIETARY	0.9 %	N.E.	N.E.	N.E.	N.E.	N.A.

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

#### 3. HAZARDS IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*: Gray Paste, with Mild odor. Harmful if inhaled or absorbed through skin. May cause allergic skin reaction. May cause eye burns. May cause allergic respiratory reaction. May cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** May be corrosive to eyes; contact may cause eye burns. Eye contact may cause severe eye damage, including vision disturbances, corneal damage, and blindness.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** May be absorbed through the skin in harmful amounts. May cause skin sensitization. May cause allergic skin reaction. May cause dermatitis. A skin corrosivity study performed on this product or a similar product concludes that it is not corrosive to skin.

**EFFECTS OF OVEREXPOSURE - INHALATION:** 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 headache and nausea. Inhalation may cause temporary blurring of vision. May cause respiratory sensitization. May cause allergic respiratory reaction.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** May cause respiratory sensitization. Extremely high vapor concentrations may cause lung damage. May cause liver or kidney damage. May affect the gastrointestinal system. Prolonged or repeated contact may result in dermatitis. May cause nervous system disorders.

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

### 4. FIRST AID MEASURES

300000005402

Product: FUSOR 120, T20, T21 COMPOSITE ADH PT B, Effective Date: 08/25/2014

**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

FLASH POINT:  $\geq$  201 °F, 93 °C LOWER EXPLOSIVE LIMIT (%): 1.1 %(V) Setaflash Closed Cup UPPER EXPLOSIVE LIMIT (%): 8.6 %(V)

**AUTOIGNITION TEMPERATURE: N.D.** 

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** 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 FIREFIGHTING PROCEDURES:** Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

## 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep non-essential personnel a safe distance away from the spill area. Avoid breathing vapors. Use self-contained breathing equipment. Notify appropriate authorities if necessary. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the MSDS 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

**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. Observe OSHA regulations (29CFR 1910.134) for respirator use.

**SKIN PROTECTION:** Use neoprene, nitrile, or rubber gloves to prevent skin contact.

Product: FUSOR 120, T20, T21 COMPOSITE ADH PT B, Effective Date: 08/25/2014

**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

ODOR: Mild BOILING RANGE: N.A. APPEARANCE: Gray VAPOR PRESSURE: N.D.

PHYSICAL STATE: Paste VAPOR DENSITY: Heavier than Air ODOR THRESHOLD: N.D. EVAPORATION RATE: Slower than n-butyl-

acetate

SOLUBILITY IN H2O: Insoluble DENSITY, LB/GL: 10.2687 lb/gal pH: N.A. VOLATILE BY WEIGHT: 0.00 % FREEZE POINT: N.D. VOLATILE BY VOLUME: 0.00 %

COEFFICIENT OF WATER/OIL N.D.

**DISTRIBUTION:** 

(See section 16 for abbreviation legend)

## 10. STABILITY AND REACTIVITY

**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

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

**STABILITY:** Product is stable under normal storage conditions.

# 11. TOXICOLOGICAL INFORMATION

PRODUCT LD50 (ORAL) No Data (DERMAL) No Data PRODUCT LC50 No Data

# 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information

# 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

Product: FUSOR 120, T20, T21 COMPOSITE ADH PT B, Effective Date: 08/25/2014

This product is NOT REGULATED for non-bulk US DOT Road, IATA Cargo or IMDG 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 -

This product is considered hazardous as defined by 29 CFR 1910.1200 (OSHA HazCom Standard.)

#### **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 NameCAS NumberWeight % Less ThanPhenol108-95-210.0 %

#### 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

HMIS RATINGS - HEALTH: 2\* FLAMMABILITY: 1 PHYSICAL HAZARD: 0

#### **VOLATILE ORGANIC COMPOUNDS**

Calculated: 0 lb/gal, 0 g/l

Revision: Section 1

**LEGEND:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

# **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.

<sup>\* -</sup> Indicates a chronic hazard; see Section 3