

JUL -15' 03(FRI) 13:40

LORD CORP. / CPD MARKETING

TEL:919 469 5923

LORD MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LORD AP-134

Product Use/Class: ADHESION PROMOTER

LORD CORPORATION
CHEMICAL PRODUCTS DIVISION
2000 WEST GRANDVIEW BLVD
ERIE, PA 16514

INFORMATION TELEPHONE: 814 868-3611

TRANSPORTATION EMERGENCY
CALL CHEMTREC: 800 424-9300

NON-TRANSPORTATION EMERGENCY: 814

EFFECTIVE DATE: 10/22/2002

SUPERCEDES DATE: 01/04/2002

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Weight % Less Than | ACGIH TLV-TWA | ACGIH TLV-STEL | OSHA PEL-TWA | OSHA PEL-CEILING | Units |
|-----------------|------------|--------------------|---------------|----------------|--------------|------------------|-------|
| Toluene | 108-88-3 | 75 % | 50 | N.E. | 200 | 300 | ppm |
| N-Butanol | 71-36-3 | 5.0 % | N.E. | C 50 | 100 | N.E. | ppm |
| 2-Butoxyethanol | 111-76-2 | 4.0 % | 25 | N.E. | 50 | N.E. | ppm |
| Ethyl alcohol | 64-17-5 | 4.0 % | 1000 | N.E. | 1000 | N.E. | ppm |

N.E. - Not Established, S - Skin Designation, C - Ceiling

SECTION 3 - HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW ***:** Clear Liquid, with Solvent odor. Flammable liquid and vapor. Harmful absorbed through skin. May cause skin and eye irritation. May cause respiratory tract irritation. Vapor harm may affect the brain or nervous system causing dizziness, headache or nausea.

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

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May be absorbed through the skin in harmful amount. May cause skin irritation. May cause dermatitis.

EFFECTS OF OVEREXPOSURE - INHALATION: Possible irritation of the respiratory system can occur a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. 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.

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EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause liver or kidney damage. Repeated prolonged solvent overexposure may result in permanent central nervous system damage. May affect the and blood-forming organs. Chronic skin contact may cause dermatitis.

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

SECTION 4 - FIRST AID MEASURES

FIRST AID- EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes. Keep 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 persist.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Give victim one or two glasses of water. Call a physician or poison control center immediately for further instructions. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 35F, 2C
(Setaflash Closed Cup)

LOWER EXPLOSIVE LIMIT (%): 1.10
UPPER EXPLOSIVE LIMIT (%): 19.00

AUTOIGNITION TEMPERATURE: N.D.

OSHA FLAMMABILITY CLASSIFICATION: FLAMMABLE LIQUID - CLASS IB

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapor. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed container may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool.

SPECIAL FIREFIGHTING PROCEDURES: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Water spray may be ineffective. If water is used, fog nozzles are preferable. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep non-essential personnel safe distance away from the spill area. Remove all sources of ignition (flame, hot surfaces, and electrical, or frictional sparks). Avoid breathing vapors. Use self-contained breathing equipment. Notify appropriate authorities if necessary. Contain and remove with inert absorbent material and non-sparking tools. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the MSDS form.

SECTION 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. Empty containers should not be reused. Use with adequate ventilation. Reserve a...

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"Flammable and Combustible Liquids" for specific storage requirements. Store only in well-ventilated area not puncture, drag, or slide container. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern and volume should be provided in order to air contaminant levels below recommended exposure limits. Caution: Solvent vapors are heavier than air collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating.

RESPIRATORY PROTECTION: Use a NIOSH/MSHA approved chemical/mechanical filter respirator des remove a combination of particulates and organic vapor if occupational limits are exceeded. For emergen situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use a 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 splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contaminatio likely. Remove and wash contaminated clothing before reuse.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is l or stored. Wash thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|-------------|----------------------------|---------|
| BOILING RANGE: | 172 - 340 F | VAPOR DENSITY: | Heavier |
| APPEARANCE: | Clear | EVAPORATION RATE: | Slower |
| PHYSICAL STATE: | Liquid | DENSITY, LB/GL: | 7.46 |
| ODOR: | Solvent | SPECIFIC GRAVITY: | 0.80 |
| SOLUBILITY IN H2O: | Insoluble | pH: | N.A. |
| FREEZE POINT: | N.D. | ODOR THRESHOLD: | N.D. |
| VOLATILE BY WEIGHT: | 87.1% | VOLATILE BY VOLUME: | 80.4% |
| VAPOR PRESSURE: | N.D. | | |
| COEFFICIENT OF WATER/OIL DISTRIBUTION: | N.D. | | |

(See section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures. Sources of ignition.

INCOMPATIBILITY: Strong oxidizers, acids, bases, water.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, chlorine, hydrogen chl Phosgene.

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

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PRODUCT LD60 (ORAL) : No Data
(DERMAL) : No Data
PRODUCT LC50 : No Data

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state and environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: ADHESIVE
DOT HAZARD CLASS: 9
DOT UN/NA NUMBER: UN 1139
PACKING GROUP: II
EMERGENCY RESPONSE GUIDE NUMBER: 127

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.120)

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

| <u>CHEMICAL NAME</u> | <u>CAS NUMBER</u> | <u>WT. % IS LESS T</u> |
|----------------------|-------------------|------------------------|
| Toluene | 108-88-3 | 75 % |
| N-Butanol | 71-36-3 | 5.0 % |
| 2-Butoxyethanol | 111-76-2 | 4.0 % |

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(f) exported from the United States:

NONE

SECTION 16 - OTHER INFORMATION

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REASON FOR REVISION: Revised Section 16; Export Notification

VOLATILE ORGANIC COMPOUNDS (Calculated) : 8.49 lbs/gal, 778 grams/ltr

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

990291340RL

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.