



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : TYRITE 7650  
 PRODUCT USE/CLASS : STRUCTURAL URETHANE DATE PRINTED: 12/22/93

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

EMERGENCY TELEPHONE: 814 763-2345  
 24 HOURS A DAY

INFORMATION TELEPHONE : 814 868-3611

PREPARE DATE: 12/17/93

PREVIOUS MSDS REVISION DATE: 12/17/93

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Wt % Less Than	Exposure Guidelines					
			ACGIH TWA	STEL	OSHA TWA	Ceil	Units	Skin
Diphenylmethane diisocyanate	26447-40-5	1.0%	.005	N.E.	N.E.	0.02	ppm	
Aromatic isocyanate	Proprietary	10%	.02	N.E.	N.E.	0.02	ppm	
Methyl ethyl ketone	78-93-3	35%	200	300	200	N.E.	ppm	
Toluene	108-88-3	10%	50	N.E	200	300	ppm	S

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

### SECTION 3 - HAZARDS IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*: Tan Liquid, with Solvent odor. Flammable liquid and vapor. Harmful if absorbed through skin. May cause allergic skin reaction. May cause allergic respiratory reaction. Vapor harmful; may affect the brain or nervous system causing dizziness, headache or nausea. Causes skin and eye irritation. Causes respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

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

EFFECTS OF OVEREXPOSURE - INHALATION: Possible irritation of respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. Allergic conditions can occur in certain individuals with high sensitivity to

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**SECTION 3 - HAZARDS IDENTIFICATION**

isocyanates; this may result in asthma-like symptoms. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. May cause respiratory sensitization. May cause lung damage.

**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 liver or kidney damage. Repeated or prolonged solvent overexposure may result in permanent central nervous system damage. May cause long-term lung damage. 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 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. Give victim one or two glasses of water or milk. 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:** 27F, -3C  
(SETAFLASH CLOSED CUP)

**LOWER EXPLOSIVE LIMIT:** 1.2 %  
**UPPER EXPLOSIVE LIMIT:** 11.4 %

**AUTOIGNITION TEMPERATURE:** N.D.

**OSHA FLAMMABILITY CLASSIFICATION:** FLAMMABLE LIQUID - CLASS IB

**EXTINGUISHING MEDIA:** CO2 DRY CHEMICAL FOAM WATER FOG

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Flammable liquid and vapor. Keep containers tightly closed. Isolate from heat, electrical equipment,

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**SECTION 5 - FIRE FIGHTING MEASURES**

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.

**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 a safe distance away from the spill area. Remove all sources of ignition (flame, hot surfaces, and electrical, static 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 re-used. 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:** Do not store or use near heat, sparks, or open flame. Refer to OSHA 29CFR Part 1910.106 "Flammable and Combustible Liquids" for specific storage requirements. Store only in well-ventilated areas. Do 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 maintain air contaminant levels below recommended exposure limits. Caution: Solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

vapor/air mixtures from accumulating.

**RESPIRATORY PROTECTION:** This product contains isocyanates which have poor odor warning properties. A NIOSH/MSHA approved supplied-air respirator is recommended. A vapor/particulate respirator may be appropriate in certain circumstances where airborne monitoring demonstrates vapor levels below ten times the applicable exposure limits and where organic solvents are present in the product to provide adequate warning properties. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, an approved air-supplied respirator is required. 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 the washroom. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING RANGE</b>	: 175 - 302 F	<b>VAPOR DENSITY</b>	: Is heavier than air
<b>APPEARANCE</b>	: Tan	<b>ODOR THRESHOLD</b>	: N.D.
<b>PHYSICAL STATE</b>	: Liquid	<b>EVAPORATION RATE</b>	: Is slower than Ether
<b>ODOR</b>	: Solvent	<b>DENSITY, LB/GAL</b>	: 8.45
<b>SOLUBILITY IN H2O</b>	: Insoluble	<b>SPECIFIC GRAVITY</b>	: 1.01
<b>FREEZE POINT</b>	: N.D.	<b>pH</b>	: N.A.
<b>VOLATILE BY WEIGHT</b>	: 39.1 %	<b>VOLATILE BY VOL</b>	: 48.6 %
<b>VAPOR PRESSURE</b>	: N.D.		
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b> N.D.			

(See Section 16 for abbreviation legend)

**SECTION 10 - STABILITY AND REACTIVITY**

**CONDITIONS TO AVOID:** High temperatures. Sources of ignition.

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

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**SECTION 10 - STABILITY AND REACTIVITY**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Monomeric isocyanate, traces of hydrogen cyanide, nitrogen dioxide. Carbon monoxide, carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

**SECTION 11 - TOXICOLOGICAL PROPERTIES**

No product toxicological information is available.

**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 local 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:** 3

**EMERGENCY RESPONSE GUIDE NUMBER:** 26

**DOT UN/NA NUMBER:** UN1133

**PACKING GROUP**

**: II**

**SECTION 15 - REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:** AS FOLLOWS -

**OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

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**SECTION 15 - REGULATORY INFORMATION****SARA SECTION 313:**

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

----- CHEMICAL NAME -----	CAS NUMBER	WT % IS LESS THAN
Methyl ethyl ketone	78-93-3	35%
Toluene	108-88-3	10%

**TOXIC SUBSTANCES CONTROL ACT:****INVENTORY STATUS**

The chemical substances in this product are on the TSCA Section 8 Inventory.

**INTERNATIONAL REGULATIONS: AS FOLLOWS -**

**CANADIAN WEMIS:** This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

**CANADIAN WEMIS CLASS:** No information available.

**SECTION 16 - OTHER INFORMATION**

**HMS RATING** - HEALTH: 2\*      FLAMMABILITY: 3      REACTIVITY: 1

**REASON FOR REVISION:** New MSDS format

**VOLATILE ORGANIC COMPOUNDS (VOCS):** 3.30 lbs/gal,    396 grams/ltr

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

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.

<END OF MSDS>