

**TECH LINE COATINGS, INC.**

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**MATERIAL SAFETY DATA SHEET****SECTION I****COMMON NAME (S): CLR****CHEMICAL NAME(S) AND SYNONYM(S): INDUSTRIAL COATING****CHEMICAL FAMILY: N/A****FORMULA: Complex Mixture****EMERGENCY PHONE: (Chemtrec) 1-800-424-9300****INFORMATION PHONE: 951-304-0498****DATE PREPARED: 7/14/2003 (update)**Hazardous Materials Identification System

Health	2
Flammability	4
Reactivity	0
Special Notice	-

**SECTION II****HAZARDOUS INGREDIENTS**

<u>COMPONENT</u>	<u>CAS#</u>	<u>CONCENTRATIONS</u>
TOLUENE ACGIH TLV: 100 PPM OSHA PEL: 200 PPM	108-88-3	>35%
XYLENE ACGIH TLV: 100 PPM OSHA PEL: 100 PPM	1330-20-7 (TECHNICAL GRADE XYLENE CONTAINS 18-20% ETHYL BENZENE CAS# 100-41-4 AND IS SUBJECT TO REPORTING REQUIREMENTS SARA TITLE III )	<10%
BUTANOL ACGIH TLV: 50 PPM OSHA PEL: 500 PPM	71-36-3	<10%
METHYL ETHYL KETONE ACGIH TLV: 200 PPM OSHA PEL: 200 PPM	78-93-3	>35%
ETHYL BENZENE ACGIH TLV: 100 PPM OSHA PEL: 100 PPM	100-41-4	1-5%
RESIDUAL FORMALDEHYDE ACGIH TLV: 1 PPM OSHA PEL: 3 PPM	50-00-0	TRACE

NOTE: TOLUENE AND XYLENE ARE CONSIDERED BY SOME AUTHORITIES TO BE CARCINOGENS

**SECTION III****PHYSICAL CHARACTERISTICS****BOILING POINT: 167-288 F.****VAPOR DENSITY ( AIR = 1 ) : 7.4****VAPOR PRESSURE: NOT ESTABLISHED****MELTING POINT: NOT APPLICABLE****APPEARANCE AND ODOR: CLEAR TO AMBER LIQUID/SOLVENT SMELL****SOLUBILITY IN WATER: POOR****REACTIVITY IN WATER: NONE****VOC'S: 800 GRAMS/L****SECTION IV****FIRE AND EXPLOSION HAZARD DATA****FLASH POINT: 24 F.**

**FLAMMABLE LIMITS:**

LEL- 1.4%

UEL- 10.0%

**DOT:** FLAMMABLE LIQUID

**EXTINGUISHING MEDIA:** FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

**SPECIAL FIRE FIGHTING PROCEDURES:** USE FULL PROTECTIVE EQUIPMENT, INCLUDING SELF CONTAINED BREATHING APPARATUS

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION

**SECTION V**

**REACTIVITY DATA**

**STABILITY:** STABLE

**INCOMPATIBILITY ( MATERIALS TO AVOID ) :** OPEN FLAME

**HAZARDOUS DECOMPOSITION PRODUCTS:** CARBON MONOXIDE AND UNIDENTIFIED ORGANICS MAY BE FORMED

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

**CONDITIONS TO AVOID:** NONE

**SECTION VI**

**HEALTH HAZARD DATA**

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**ROUTES OF ENTRY:**

INHALATION? YES

SKIN? YES

INGESTION? YES

**TOXICITY (ACUTE AND CHRONIC )**

TOLUENE ( CAS# 108-88-3 ) MAY BE HARMFUL TO THE FETUS BASED ON LABORATORY ANIMAL STUDIES. REPEATED EXPOSURE TO TOLUENE HAS BEEN ASSOCIATED WITH HIGH FREQUENCY HEARING LOSS BASED ON EVIDENCE IN LABORATORY ANIMALS; THE HUMAN HEALTH CONSEQUENCES OF THIS FINDING ARE UNCERTAIN.

CHRONIC OVEREXPOSURE TO BUTANOL (CAS#71-36-3) HAS BEEN SUGGESTED TO CAUSE EYE DAMAGE IN HUMANS. OVEREXPOSURE TO BUTANOL HAS BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE, EYE AND LUNG DAMAGE.

BENZENE ( CAS# 71-43-2 ) NTP AND IARC HAVE REPORTED THAT BENZENE IS CARCINOGENIC IN TEST ANIMALS THROUGH INGESTION AND INHALATION AND IN HUMANS THROUGH INHALATION. SILOXANES PRESENT IN THIS MATERIAL CAN GENERATE FORMALDEHYDE WHEN HEATED TO APPROXIMATELY 300F. FORMALDEHYDE IS A SKIN AND RESPIRATORY, EYE AND THROAT IRRITANT AND A POTENTIAL CANCER HAZARD

METHYL ETHYL KETONE (CAS# 78-98-3) IS AN EYE AND SKIN IRRITANT, AFFECTS THE NERVOUS SYSTEM, AND IS A TERATOGEN IN LAB ANIMALS.

CHRONIC OVEREXPOSURE TO XYLENE ( CAS# 1330-20-7 ) HAS BEEN SUGGESTED TO CAUSE CARDIAC ABNORMALITIES IN HUMANS.

FORMALDEHYDE (CAS# 50-00-0) IS HIGHLY IRRITATING TO SKIN, EYES, MUCOUS MEMBRANES AND CAN CAUSE HYPERSENSITIVITY LEADING TO CONTACT DERMATITIS. FORMALDEHYDE IS LISTED BY THE IARC AS AN INDEFINITE HUMAN CARCINOGEN AND A POSITIVE ANIMAL CARCINOGEN. IT MAY BE REASONABLY ANTICIPATED TO BE A HUMAN CARCINOGEN ACCORDING TO THE NTP ANNUAL REPORT. CARCINOGENICITY NTP-YES, IARC-YES, OSHA-NO

**HEALTH HAZARDS:**

EYES: SEVERE IRRITATION, REDNESS, TEARING AND BLURRED VISION

SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE DERMATITIS

IRRITATION, DEFATTING AND

INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, HEADACHE, POSSIBLE UNCONSCIOUSNESS, DEATH

INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA. ASPIRATION OF THE MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL

**EMERGENCY AND FIRST AID:**

EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER, CALL A PHYSICIAN ( FLUSH FOR AT LEAST 15 MIN., INCLUDING UNDER EYELIDS )

SKIN: WASH WITH WATER. REMOVE CONTAMINATED CLOTHING IF IRRITATION OCCURS GET MEDICAL ATTENTION

**INHALATION:** REMOVE INDIVIDUAL TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. CALL A PHYSICIAN

**INGESTION:** CALL A PHYSICIAN IMMEDIATELY. ONLY INDUCE VOMITING AT THE INSTRUCTION OF A PHYSICIAN

\* INTENTIONAL MISUSE BY DELIBERATE CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL

**SECTION VII**  
**SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** CLEAN SPILL WITH ABSORBENT MATERIAL, ELIMINATE IGNITION SOURCES, WEAR PROTECTIVE GLOVES, GOGGLES AND MASK

**WASTE DISPOSAL METHOD:** DISPOSAL SHOULD BE MADE IN ACCORD WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**OTHER PRECAUTIONS:** CONTACT LENSES POSE A SPECIAL HAZARD; SOFT LENSES MAY ABSORB ALL LENSES CONCENTRATE IRRITANTS

**SECTION VIII**  
**SPECIAL PROTECTION / CONTROL MEASURES:**

**RESPIRATORY PROTECTION:** USE NIOSH APPROVED RESPIRATOR IF TWA/TLV LIMITS ARE EXCEEDED

**VENTILATION:**

LOCAL EXHAUST: USE TO MAINTAIN BELOW TWA LIMITS  
MECHANICAL: USE NON-SPARKING EQUIPMENT

**PROTECTIVE GLOVES:** CHEMICAL RESISTANT

**EYE PROTECTION:** SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES

**OTHER PROTECTIVE EQUIPMENT:** WEAR PROTECTIVE CLOTHING, CHEMICAL RESISTANT OR OTHER PROTECTIVE OUTERWEAR, AVOID CONTACT WITH SKIN OR EYES

**WORK / HYGIENIC PRACTICES:** WASH THOROUGHLY AFTER HANDLING PRODUCT AND BEFORE EATING, DRINKING OR SMOKING

**SECTION IX**  
**SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE:** STORE IN A COOL DRY PLACE, SUITABLE FOR OSHA CLASS 1 FLAMMABLE LIQUIDS

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