

TECH LINE COATINGS, INC.



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MATERIAL SAFETY DATA SHEET

SECTION I

COMMON NAME(S): TLTD

CHEMICAL NAME(S) AND SYNONYM(S): BONDED SOLID FILM LUBRICANT

CHEMICAL FAMILY: N/A

FORMULA: Complex Mixture

EMERGENCY PHONE: (Chemtrec) 1-800-424-9300

INFORMATION PHONE: 951-304-0498

DATE PREPARED: 7/2/2003 (update)

SECTION II

HAZARDOUS INGREDIENTS

<u>COMPONENT</u>	<u>CAS#</u>	<u>CONCENTRATIONS</u>
METHYL ETHYL KETONE ACGIH TLV: 200 PPM OSHA PEL: 200 PPM	78-93-3	>10%
ETHANOL ACGIH TLV: 1000 PPM OSHA PEL: 1000 PPM	64-17-5	40-50%
RESIDUAL PHENOL ACGIH TLV: 5 PPM (SKIN) OSHA PEL: 5 PPM (SKIN)	108-95-2	TRACE
RESIDUAL FORMALDEHYDE ACGIH TLV: 1 PPM OSHA PEL: 1 PPM	50-00-0	TRACE
MOLYBDENUM DISULFIDE ACGIH TLV: 10 mg/m ³ OSHA PEL: 10 mg/m ³	1317-33-5	<10%
CARBON BLACK COMPOUND ACGIH TLV: N/A OSHA PEL: 3 mg/cu m	1333-86-4	<10%

SECTION III

PHYSICAL CHARACTERISTICS

BOILING POINT: NOT AVAILABLE.

VAPOR DENSITY (AIR = 1) : >1

VAPOR PRESSURE: NOT AVAILABLE

MELTING POINT: NOT AVAILABLE

APPEARANCE AND ODOR: BLACK LIQUID/SOLVENT SMELL

SOLUBILITY IN WATER: MODERATE

REACTIVITY IN WATER: NOT AVAILABLE

VOC'S: 782 GRAMS/L

SHIPPING: Flammable Liquid UN1263, PG II

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 16F.

FLAMMABLE LIMITS:

LEL- NOT ESTABLISHED

UEL- NOT ESTABLISHED

DOT: FLAMMABLE LIQUID

EXTINGUISHING MEDIA: FOAM, CO₂, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: USE FULL PROTECTIVE EQUIPMENT, INCLUDING SELF CONTAINED BREATHING APPARATUS. DO NOT EXTINGUISH WITH WATER

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SECTION V **REACTIVITY DATA**

STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID) : CONTACT WITH STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: IRRITATING AND/OR TOXIC FUMES INCLUDING OXIDES OF CARBON AND SULFUR, AND HYDROGEN SULFIDE MAY BE RELEASED

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: OPEN FLAME

SECTION VI **HEALTH HAZARD DATA**

ROUTES OF ENTRY:

INHALATION ? YES

SKIN ? YES

INGESTION ? YES

TOXICITY (ACUTE AND CHRONIC)

METHYL ETHYL KETONE (CAS# 78-93-3) IS AN EYE AND SKIN IRRITANT, AFFECTS THE NERVOUS SYSTEM, AND IS A TERATOGEN IN LAB ANIMALS.

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

ETHANOL (CAS# 64-17-5) IS A MILD IRRITANT TO RABBIT SKIN AND A SEVERE EYE IRRITANT. ETHANOL IS REPORTED TO CAUSE TERATOGENICITY, CNS DEPRESSION, GASTROINTESTINAL DISTRESS FROM ORAL CONSUMPTION BY HUMANS. NO TOXICITY IS REPORTED FROM INHALATION BELOW TWA.

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

THE ORAL LD50 OF PHENOL (CAS# 108-95-2) IS 414 mg/kg AND IT'S INHALATION LC50 (RAT) IS 316 mg/m3. PHENOL IS CONSIDERED TOXIC ORALLY. IT IS A SEVERE SKIN AND EYE IRRITANT IN RABBITS.

(PHENOL)

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

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 REASONABLY BE ANTICIPATED TO BE A HUMAN CARCINOGEN ACCORDING TO THE NTP ANNUAL REPORT

CARCINOGENICITY: NTP-YES IARC-YES OSHA-NO

(ANIMAL POSITIVE)-(HUMAN INDEFINITE)

MOLYBDENUM COMPOUNDS MAY BE SLIGHTLY IRRITATING.

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

HEALTH HAZARDS:

EYES: IRRITATION, REDNESS, TEARING AND BLURRED VISION

SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE

IRRITATION, DERMATITIS

INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL

AND RESPIRATORY IRRITATION, DIZZINESS, FATIGUE, HEADACHE, POSSIBLE UNCONSCIOUSNESS, DEATH

INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

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 SOAP AND 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. DO NOT INDUCE VOMITING , KEEP WARM

* 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 IF TWA'S ARE EXCEEDED

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

OTHER PRECAUTIONS: NONE

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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