

# TECH LINE COATINGS, INC.



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## MATERIAL SAFETY DATA SHEET

### SECTION I

COMMON NAME(S): QHK

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

CHEMICAL FAMILY: N/A

FORMULA: Complex Mixture

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

INFORMATION PHONE: **951-304-0498**

DATE PREPARED: 6/30/03 (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	20-40%
ETHANOL ACGIH TLV: 1000 PPM OSHA PEL: 1000 PPM	64-17-5	20=30%
METHANOL ACGIH TEL: 200 PPM OSHA PEL: 200 PPM	67-56-1	<5%
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 <sup>3</sup> OSHA PEL: 10 mg/m <sup>3</sup>	1317-33-5	<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: GRAY LIQUID/SOLVENT SMELL

SOLUBILITY IN WATER: MODERATE

REACTIVITY IN WATER: NOT AVAILABLE

VOC'S: 810 GRAMS/L

SHIPPING: Flammable Liquid UN1263

### 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

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#### **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

METHANOL ( CAS# 67-56-1 ) IS A SKIN, EYE AND INHALATION IRRITANT. IT IS TOXIC ORALLY AND POSSESSES NARCOTIC PROPERTIES. TOXIC EFFECTS MANIFESTED IN THE CENTRAL NERVOUS SYSTEM AND PARTICULARLY IN THE OPTIC NERVE. METHANOL IS A CUMULATIVE POISON. SEVERE EXPOSURE TO METHANOL CAN CAUSE DIZZINESS, UNCONSCIOUSNESS, SIGNING RESPIRATION, CARDIAC DEPRESSION AND EVENTUAL DEATH. LESS SEVERE EXPOSURE TO METHANOL CAN CAUSE BLURRING OF VISION, PHOTOPHOBIA, CONJUNCTIVITIS, EYE LESIONS, HEADACHE, GASTROINTESTINAL DISTURBANCES, DIZZINESS AND A FEELING OF INTOXICATION. DEATH FROM INGESTION OF LESS THAN 30ml HAS BEEN REPORTED. USUAL FATAL DOSE IS 100-250 ml.

CARCINOGENICITY: NTP-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 IRRITATION, DERMATITIS

**INHALATION:** EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL

AND RESPIRATORY IRRITATION, DIZZINESS, FATIGUE, NAUSEA, 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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