

## TECH LINE COATINGS, INC.



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### MATERIAL SAFETY DATA SHEET

#### SECTION I

COMMON NAME(S): IC10-5

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: 972-923-0752

DATE PREPARED: 8/13/2004

#### SECTION II

##### HAZARDOUS INGREDIENTS

<u>COMPONENT</u>	<u>CAS#</u>	<u>CONCENTRATIONS</u>
BUTANOL ACGIH TLV: 50 PPM OSHA PEL: 100 PPM	71-36-3	< 6%
Diethylene Glycol Monobutyl Ether ACGIH TEL: Not Established OSHA PEL: Not Established	112-34-5	<6%
RESIDUAL PHENOL ACGIH TLV: 5 PPM (SKIN) OSHA PEL: 5 PPM (SKIN)	108-95-2	<3%
ETHANOL ACGIH TLV: 1000 PPM OSHA PEL: Not Established	64-17-5	< 2%
RESIDUAL FORMALDEHYDE ACGIH TLV: 1 PPM OSHA PEL: 1 PPM	50-00-0	TRACE
CERTAIN FILLERS	TRADE SECRET.	

#### SECTION III

##### PHYSICAL CHARACTERISTICS

**BOILING POINT:** >212 °F (100° C)

**VAPOR DENSITY ( AIR = 1 ) :** NOT AVAILABLE

**VAPOR PRESSURE:** NOT AVAILABLE

**MELTING POINT:** NOT APPLICABLE

**APPEARANCE AND ODOR:** DARK GRAY LIQUID / MILD SOLVENT SMELL

**SOLUBILITY IN WATER:** APPRECIABLE

**VOC'S:** <70 GRAMS/L

**SHIPPING:** NOT REGULATED BY GROUND,

BY AIR: AVIATION LIQUID, N.O.S. BUTANOL, FOMALAHYDE, CLASS 9 UN 3334: LABEL REQUIRED,

MISC: PACKING GROUP, NONE.

#### SECTION IV

##### FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** 208F. (Not classified as flammable or combustible)

<b>FLAMMABLE LIMITS:</b>	<b>LEL</b>	<b>UEL (9% by volume)</b>
Butanol	1.4	11.2
Diethylene glycol monobutyl ether	0.85	24.6
Ethanol	3.3	19

**EXTINGUISHING MEDIA:** USE WATER SPRAY, CO2 OR DRY CHEMICAL

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

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** NONE

**SECTION V**  
**REACTIVITY DATA**

**STABILITY:** STABLE UNDER RECOMMENDED STORAGE CONDITIONS

**INCOMPATIBILITY (MATERIALS TO AVOID):** AVOID CONTACT WITH STRONG OXIDIZERS, ACIDS, SALTS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE KNOWN

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

**CONDITIONS TO AVOID:** STORAGE ABOVE OR BELOW THE RECOMMENDED STORAGE TEMPERATURES

**SECTION VI**  
**HEALTH HAZARD DATA**

**ROUTES OF ENTRY:**  
 INHALATION ? YES  
 SKIN ? YES  
 INGESTION ? YES

**TOXICITY (ACUTE AND CHRONIC )**

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, SINGING 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)

**HEALTH HAZARDS:**

**EYES:** CONTACT WITH LIQUID OR MIST CAN CAUSE MODERATE TO SEVERE EYE INJURY  
 BUTANOL: Eye: Rabbit, 2mg (24 hours); Severe irritation  
 DIETHYLENE GLYCOL MONOBUTYL ETHER: Eye: Rabbit, 5mg; Severe irritation  
 PHENOL: Eye: Rabbit, 5mg; Severe irritation  
 ETHANOL: Eye: Rabbit, 100mg (24 hours); Moderate irritation

**SKIN:** PROLONGED OR REPEATED CONTACT CAN CAUSE MILD TO MODERATE IRRITATION  
**INHALATION:** THIS PRODUCT IS NOT EXPECTED TO BE ACUTELY TOXIC BY INHALATION  
**INGESTION:** ALTHOUGH THIS PRODUCT MAY BE HARMFUL IF SWALLOWED, THE PRIMARY COMPONENTS OF THIS PRODUCT ARE NOT CONSIDERED TO BE ORALLY TOXIC AS DEFINED IN 29 CFR 1910.1200, Appendix A (OSHA HCS)

**EMERGENCY AND FIRST AID:**

**EYES:** IMMEDIATELY FLUSH WITH PLENTY OF WATER. REMOVE CONTACT LENSES. HOLD EYELIDS APART AND FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

**SKIN:** WASH WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING, IF IRRITATION PERSISTS GET MEDICAL ATTENTION, LAUNDRY CLOTHING BEFORE REUSE.

**INHALATION:** REMOVE INDIVIDUAL TO FRESH AIR, REST IN AN UPRIGHT POSITION AND GET MEDICAL ATTENTION IF NECESSARY

**INGESTION:** IF CONSCIOUS, IMMEDIATELY RINSE MOUTH AND GIVE LARGE QUANTITIES OF WATER. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

**SECTION V 11**

**SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** CLEAN SPILL WITH ABSORBENT MATERIAL.

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

**OTHER PRECAUTIONS:** ELIMINATE IGNITION SOURCES, WEAR PROTECTIVE GLOVES, GOGGLES AND MASK IF TWA'S ARE EXCEEDED

**SECTION V 111**

**SPECIAL PROTECTION / CONTROL MEASURES:**

**RESPIRATORY PROTECTION:** USE NIOSH/MSHA CARTRIDGES OR FULL FACE RESPIRATOR FOR FORMALDEHYDE, ORGANIC VAPORS AND DUST MISTS IF TWA/TLV LIMITS ARE EXCEEDED OBSERVE THE OSHA RESPIRATOR REGULATIONS IN 29CFR 1910.134.

**VENTILATION:**

LOCAL EXHAUST: USE TO MAINTAIN BELOW TWA LIMITS

MECHANICAL: USE NON-SPARKING EQUIPMENT

**PROTECTIVE GLOVES:** CHEMICAL RESISTANT.

**EYE PROTECTION:** FACE SHIELD WITH SAFETY GLASSES OR CHEMICAL SAFETY 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 1X**

**SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE:** STORE IN A COOL DRY PLACE. Store at temperatures between 39 – 95° F (4 – 35°C)

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