

TECH LINE COATINGS, INC.



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MATERIAL SAFETY DATA SHEET

SECTION I

COMMON NAME(S): GRAY ICE, GHK

CHEMICAL NAME(S) AND SYNONYM(S): INDUSTRIAL COATING

CHEMICAL FAMILY: SILICONE COATING

FORMULA: Complex Mixture

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

INFORMATION PHONE: 1-951-304-0498

DATE PREPARED: 7/9/2003 (update)

SECTION II

HAZARDOUS INGREDIENTS

<u>COMPONENT</u>	<u>CAS#</u>	<u>CONCENTRATIONS</u>
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%
CRYSTALLINE SILICA ACGIH TLV: .1 mg/m3 OSHA PEL: .1 mg/m3	14808-60-7	>1%
ISOBUTYL ALCOHOL ACGIH TLV: 50 PPM OSHA PEL: 500 PPM	78-83-1	>5%
METHANOL ACGIH TLV: 50 PPM OSHA PEL: 500 PPM	67-56-1	<1%
MOLYBDENUM DISULFIDE ACGIH TLV: 10 mg/m3 OSHA PEL: 10 mg/m3	1317-33-5	<10%

NOTE: XYLENE IS CONSIDERED BY SOME AUTHORITIES TO BE A CARCINOGEN

SECTION III

PHYSICAL CHARACTERISTICS

BOILING POINT: 172-355 F.

VAPOR DENSITY (AIR = 1): <1

VAPOR PRESSURE: NOT ESTABLISHED

MELTING POINT: NOT APPLICABLE

APPEARANCE AND ODOR: COLORED LIQUID/SOLVENT SMELL

SOLUBILITY IN WATER: POOR

REACTIVITY IN WATER: NONE

VOC'S: 750 GRAMS/L

SHIPPING: Flammable Liquid UN1263

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 76F.

FLAMMABLE LIMITS:

LEL- 1.2%

UEL- 7.0%

DOT: FLAMMABLE LIQUID

EXTINGUISHING MEDIA: 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) : CONTACT WITH OXIDIZING AGENTS,

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE , SILICONE DIOXIDE, FORMALDEHYDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: OPEN FLAME, SPARK, HEAT

SECTION VI
HEALTH HAZARD DATA

ROUTES OF ENTRY:

INHALATION ? YES

SKIN ? YES

INGESTION ? YES

TOXICITY (ACUTE AND CHRONIC)

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

MOLYBDENUM COMPOUNDS MAY BE SLIGHTLY IRRITATING.

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

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

HEALTH HAZARDS:

EYES: SEVERE IRRITATION, REDNESS, TEARING AND BLURRED VISION

SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE

IRRITATION, AND DERMATITIS

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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