

**TECH LINE COATINGS, INC.**



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**MATERIAL SAFETY DATA SHEET**

**SECTION I**

**COMMON NAME (S):** TIK, Titanium Colorguard

**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:** 8/22/2003

**SECTION II**

**HAZARDOUS INGREDIENTS**

<b>COMPONENT</b>	<b>CAS#</b>	<b>CONCENTRATIONS</b>
<b>XYLENE</b> ACGIH TLV: 100 PPM OSHA PEL: 100 PPM	1330-20-7 (TECHNICAL GRADE XYLENE CONTAINS 16-20% ETHYL BENZENE CAS# 100-41-4 AND IS SUBJECT TO REPORTING REQUIREMENTS	>10% SARA TITLE III )
<b>ISOBUTYLALCOHOL</b> ACGIH TLV: 50 PPM OSHA PEL: 500 PPM	78-83-1	>10%
<b>ETHANOL</b> ACGIH TLV: .1000 PPM OSHA PEL: .1900 PPM	064-175	<1%
<b>Nickel Antimony Titanium Yellow Rutile</b> As Regulated Antimony and compounds (as Sb) ACGIH TLV: .5 mg/m3 OSHA PEL: .5 mg/m3 Nickel metal and insoluble compounds (as Ni) ACGIH TLV: .2 mg/m3 OSHA PEL: 1 mg/m3 This product is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides.	8007-18-9	<10%
<b>COPPER CHROMITE BLACK SPINEL</b> Copper dusts and mists (as Cu) OSHA PEL: 1 MG/M3 ACGIH TLV: 1 MG/M3 SARA TITLE 313: YES	68186-91-7	<30%

**FILLERS**

**TRADE SECRET**

(Specific ingredients are not listed. Full information is available to qualified medical personnel)

The metallic portion of the formula is made through the alloying of a variety of materials. The alloy does not have the properties of the individual ingredients that make up the alloy. Certain hazardous components of the alloy are listed

<b>Ingredient</b>	<b>CAS #</b>	<b>0%</b>	<b>ACHIG OSHA TLV-TWA</b>	<b>ECC PEL-TWA</b>	<b>ECC Symbols</b>	<b>ECC R-phase</b>
Chromium	7440-47-3	16-18	0.5 mg/m3	1 mg/m3	Ti,Xi	25,36/37/38, 43
Nickel	7440-47-0	10-14	1 mg.m3	1 mg.m3	Carc.Cat1	45.10,25,
Silicon	7440-21-3	<1	10 mg/m3	10:5 mg/m3	F	10

Note: "Total dust" and "Respirable Fraction" OSHA PEL values are listed for Silicon. NOTE: The National Toxicology program lists nickel, chromium and certain chromium compounds to be carcinogenic. **This alloy does not contain any Hexavalent Chromium**

NOTE: XYLENE IS CONSIDERED BY SOME AUTHORITIES TO BE CARCINOGEN

**SECTION III**  
**PHYSICAL CHARACTERISTICS**

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**FLASH POINT:** 79F  
**BOILING POINT:** 172-355 F.  
**VAPOR DENSITY (AIR = 1):** <1  
**VAPOR PRESSURE:** NOT ESTABLISHED  
**MELTING POINT:** NOT APPLICABLE  
**APPEARANCE AND ODOR:** LIGHT GRAY COLORED LIQUID/SOLVENT SMELL  
**SOLUBILITY IN WATER:** POOR  
**REACTIVITY IN WATER:** NONE  
**VOC'S:** 750 GRAMS/L

**SECTION IV**  
**FIRE AND EXPLOSION HAZARD DATA**

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**FLASH POINT:** 79 F.  
**FLAMMABLE LIMITS:**  
    **LEL-** NOT ESTABLISHED  
    **UEL-** NOT ESTABLISHED  
**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):** CONTACT WITH STRONG OXIDIZING AGENTS, ACIDS OR BASES

**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)**

Chronic (long term) exposure, in laboratory animals, to this material (or it's components) has been found to cause the following effects; anemia, liver abnormalities, kidney, lung and spleen damage.

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, defatting and dermatitis

**Inhalation:** excessive inhalation of vapors can cause metallic taste and nasal ulceration and perforation and respiratory irritation, dizziness, headache, possible unconsciousness, death

Aspiration of the material into the lungs can cause chemical pneumonitis, which can be fatal

**Ingestion:** can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Copper dusts and mists are eye and mucous membrane irritants and skin sensitizers. Exposure may result in irritation and metal-fume fever, metallic taste, discoloration of the skin and hair.

**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

REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

THIS PRODUCT CONTAINS A TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR 372. SEE SECTION 2, LIST LEGEND 02.

OSHA STANDARD 29 CFR 1910.1200 REQUIRES THAT INFORMATION BE PROVIDED TO EMPLOYEES REGARDING THE HAZARDS OF CHEMICALS BY MEANS OF A HAZARD COMMUNICATION PROGRAM INCLUDING LABELING, MATERIAL SAFETY DATA SHEETS, TRAINING AND ACCESS TO WRITTEN RECORDS. WE REQUEST THAT YOU, AND IT IS YOUR LEGAL DUTY TO, MAKE ALL INFORMATION IN THIS MATERIAL SAFETY DATA SHEET AVAILABLE TO YOUR EMPLOYEES.

TO AID OUR CUSTOMERS IN COMPLYING WITH REGULATORY REQUIREMENTS, SARA TITLE III HAZARD CATEGORIES FOR THIS PRODUCT ARE INDICATED BELOW. IF THE WORD "YES" APPEARS NEXT TO ANY CATEGORY, THIS PRODUCT MAY BE REPORTABLE BY YOU UNDER THE REQUIREMENTS OF 40. CFR. 370. PLEASE CONSULT THOSE REGULATIONS FOR DETAILS.

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