

TECH LINE COATINGS, INC.



26844 Adams Ave. ♦ MURRIETA, CA 92562 ♦ USA

Phone 951-304-0498

♦ Fax 951-461-9658

www.techlinecoatings.com

MATERIAL SAFETY DATA SHEET

SECTION I

COMMON NAME(S): HHBK
CHEMICAL NAME(S) AND SYNONYM(S): METALLIC CERAMIC COATING
CHEMICAL FAMILY: Not Applicable
FORMULA: Complex Mixture
EMERGENCY PHONE: (Chemtrec) 1-800-424-9300
INFORMATION PHONE: 951-304-0498
DATE PREPARED: 8/9/02 (update)

SECTION II

<u>HAZARDOUS INGREDIENTS</u>	<u>CAS#</u>	<u>CONCENTRATIONS</u>
------------------------------	-------------	-----------------------

Copper Chromite Black Spinel Copper dusts and mists (as Cu) OSHA PEL: 1 MG/M3 ACGIH TLV: 1 MG/M3 SARA TITLE 313: YES	68186-91-7	>50%
------------------------------------------------------------------------------------------------------------------------------------	------------	------

PHOSPHATE/CHROMATE SOLUTION (Less than 3.% of total weight is CrO3) ACGIH TLV: 1mg/M3 As Regulated: Chromium (III) compounds (as Cr) OSHA PEL: .05 MG/M3 ACGIH TLV: .05MG/M3 SARA TITLE 313: YES	92203-02-6	>15%
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------	------

NOTE: The National Toxicology program lists chromium and certain chromium compounds to be carcinogenic.

SECTION III

PHYSICAL CHARACTERISTICS

BOILING POINT: N/A
VAPOR DENSITY (AIR = 1) : <1
% VOLATILE VOLUME: 59.7%
APPEARANCE AND ODOR: Black Liquid with no odor
SOLUBILITY IN WATER: APPRECIABLE
VOC'S: 0
SHIPPING: NON-HAZARDOUS

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE
EXTINGUISHING MEDIA: USE SAND OR CARBON DIOXIDE
SPECIAL FIRE FIGHTING PROCEDURES: DO NOT USE EXTINGUISHING AGENTS CONTAINING WATER, AS REACTION WITH ALUMINUM MAY PRODUCE HYDROGEN GAS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTACT WITH ALKALIS, STRONG REDUCING OR OXIDIZING AGENT MAY PRODUCE HYDROGEN GAS, CAUSING FIRE OR EXPLOSION HAZARD.

SECTION V

REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY (MATERIALS TO AVOID) : CONTACT WITH OXIDIZING AGENTS, ALKALIS OR STRONG REDUCING AGENTS
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI

HEALTH HAZARD DATA

ROUTES OF ENTRY:
INHALATION ? YES
SKIN ? YES

INGESTION ? YES
CARCINOGENICITY:
NTP, OSHA ? CHROMIUM AND CERTAIN CHROMIUM COMPOUNDS ARE LISTED

HEALTH HAZARDS:

EYES: CAUSES SEVERE IRRITATION
SKIN: CAUSES MILD SKIN IRRITATION, DRYING OF SKIN
INHALATION: MAY CAUSE DRYING OF NASAL AND RESPIRATORY TISSUE
INGESTION: HARMFUL IF SWALLOWED, CAUSING VOMITING, NAUSEA, DIARRHEA

TOXICOLOGICAL INFORMATION: PIGMENT

ACUTE TOXICITY

LD50/ORAL/RAT: >10,000MG/L (6)
LD50/INHAL/RAT >11.1 MG/L (5)
SENSITIZING: NONE EXPECTED
PRIMARY SKIN IRRITATION/RABBIT NO DATA AVAILABLE
PRIMARY MUCOUS MEMBRANE IRRITATION/RABBIT EYES: NO DATA AVAILABLE
CARCINOGENICITY: NTP NO, IARC: NO, OSHA REGULATED: NO

EMERGENCY AND FIRST AID:

EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER, CALL A PHYSICIAN
SKIN: WASH WITH WATER. REMOVE CONTAMINATED CLOTHING
INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. CALL A PHYSICIAN
INGESTION: GIVE LARGE AMOUNTS OF WATER FOLLOWED BY MILK OF MAGNESIA. CALL A PHYSICIAN IMMEDIATELY

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: RESPIRATORY, DERMAL AILMENTS

SECTION VII

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CLEAN SPILL WITH ABSORBENT MATERIAL. NEUTRALIZE WITH SODIUM BICARBONATE. DO NOT USE STRONG ALKALIS. FLUSH AREA WITH WATER
WASTE DISPOSAL METHOD: MATERIAL MAY BE BAKED AT CURE TEMPERATURE THEN DISCARDED AS SOLID WASTE, OR FILTER TO REMOVE SOLIDS DISCARD AS SOLID WASTE. TREAT REMAINING LIQUID WITH SODIUM METABISULFITE, THEN PRECIPITATE TRIVALENT CHROMIUM BY NEUTRALIZING WITH ALKALI, SUCH AS LIME. DISPOSAL SHOULD BE MADE IN ACCORD WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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: RUBBER ACID PROOF

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE CLOTHING, ACID PROOF

WORK / HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING PRODUCT AND BEFORE EATING, DRINKING OR SMOKING

SECTION IX

SPECIAL PRECAUTIONS

HANDLING AND STORAGE: STORE IN AREAS THAT WILL NOT COME INCONTACT WITH STRONG ALKALIS OR OXIDIZING AGENTS.

NOTE: Since this compound contains a powdered element a clean spray area and duct system are important. It is hazardous to allow an accumulation of dried material to occur since this dried material in the form of duct could be ignited by sparks or other means and possibly cause a dust explosion as with any finely divided powdered material.

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.

CHROMIC ACID

TSCA:

ALL COMPONENTS OF THIS PRODUCT THAT ARE REQUIRED TO BE ON THE TSCA INVENTORY ARE LISTED ON THE INVENTORY.

SARA/TITLE III HAZARD CATEGORIES:

IMMEDIATE (ACUTE) HEALTH: *YES* REACTIVE HAZARD *NO*
DELAYED (CHRONIC) HEALTH: *YES* SUDDEN RELEASE OF PRESSURE *NO*
FIRE HAZARD: *YES*

HMS HAZARD RATINGS:

HEALTH HAZARD: *3** FIRE HAZARD: *0* REACTIVITY: *1*

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

INTERNATIONAL REGULATIONS:

CONSULT THE REGULATIONS OF THE IMPROTING COUNTRY.

CANADA:

WHMIS HAZARD CLASS: C, D1A, D2A, E

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATION, INDUCEMENT OR LICENSE OF ANY KIND, EXCEPT THAT IT IS ACCURATE TO THE BEST OF TECH LINE COATINGS, INC., KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY TECH LINE COATINGS, INC. TO BE ACCURATE, AND TECH LINE COATINGS, INC., DOES NOT ASSUME ANY LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON SAME. BEFORE USING ANY CHEMICAL, READ ITS LABEL, INSTRUCTIONS AND MATERIAL SAFETY DATA SHEET.