

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): CBC1

CHEMICAL NAME(S) AND SYNONYM(S): METALLIC CERAMIC COATING

CHEMICAL FAMILY: SILIC ACID

FORMULA: WATER BASED INORGANIC COATING

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

INFORMATION PHONE: 1-951-304-0498

DATE PREPARED: 5/21/2003

SECTION II

HAZARDOUS INGREDIENTS

<u>COMPONENT</u>	<u>CAS#</u>	<u>CONCENTRATIONS</u>
SILIC ACID ACGIH TLV: N/A OSHA PEL: N/A	1312-76-1	TRADE SECRET

RESIN ACGIH TLV: .N/A OSHA PEL: N/A (All hazardous materials in resin are declared)	TRADE SECRET
--	--------------

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

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

Ingredient	CAS #	0%	ACHIG OSHA TLV-TWA	ECC PEL-TWA	ECC Symbols	ECC R-phase
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**

SECTION III

PHYSICAL CHARACTERISTICS

BOILING POINT: 212F..

VAPOR DENSITY (AIR = 1) : <1

VAPOR PRESSURE: NOT AVAILABLE

MELTING POINT: NOT AVAILABLE

APPEARANCE AND ODOR: TAN LIQUID NO ODOR

SOLUBILITY IN WATER: APPRECIABLE

REACTIVITY IN WATER: NOT AVAILABLE

VOC'S: 0

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE

FLAMMABLE LIMITS: NOT APPLICABLE

LEL-

UEL-

DOT: NO LABELING REQUIRED

EXTINGUISHING MEDIA: SAND, CARBON DIOXIDE OR DRY CHEMICAL. DO NOT USE WATER.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: CHROMIUM IS MODERATELY EXPLOSIVE. NICKEL IS A FLAMMABLE SOLID AND SPONTANEOUSLY COMBUSTS. SILICON IS A FLAMMABLE SOLID. THESE ARE ALL ALLOYED IN THE METALLIC COMPONENT AND DO NOT EXIST IN A FREE STATE.

SECTION V

REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID) : NONE

HAZARDOUS DECOMPOSITION PRODUCTS: IRRITATING AND/OR TOXIC FUMES

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE

SECTION VI

HEALTH HAZARD DATA

ROUTES OF ENTRY:

INHALATION? YES

SKIN? YES

INGESTION? YES

TOXICITY (ACUTE AND CHRONIC)

CARCINOGENICITY:

NTP, OSHA? CHROMIUM AND CERTAIN CHROMIUM COMPOUNDS ARE LISTED. CRYSTALLINE SILICA IS LISTED AS A PROBABLE HUMAN CARCINOGEN. NICKEL METAL IS LISTED AS CARCINOGENIC TO HUMANS BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (GROUP 1), AND BY THE NATIONAL TOXICOLOGY PROGRAM. THESE ARE ALL ALLOYED IN THE METALLIC COMPONENT AND DO NOT EXIST IN A FREE STATE.

The following information is for crystalline silica in its dry form, NOT AS BLENDED.

HEALTH HAZARDS: Crystalline silica does not cause burns or severe skin or eye irritation. A single exposure will not result in serious adverse health effects. Crystalline silica is not an environmental hazard.

Potential health effects:

INHALATION: Exposure to Crystalline silica can cause silicosis, a fibrous scarring of the lungs . Silicosis may be a progressive; it may lead to disability and death. There is evidence that exposure to respirable crystalline silica or the disease silicosis is associated with the increased incidence of scleroderma, an immune system disorder manifested by a fibrosis (scarring) of the lungs, skin and other internal organs. Individuals with siliocosis are predisposed to develop tuberculosis, There are several studies that suggest that respirable crystalline silica or the disese silicosis is associated with the increased incidence of kidney lesions. When crystalline silica is heated to more than 850C/1560f it can change to a form known as trydimite. PEL for trymidite is 1/2 that of crystalline silica

THIS PRODUCT CONTAINS NO HEXAVALENT CHROMIUM; rather the chromium is in the alloyed, metallic state.

HEALTH HAZARDS:

EYES: IRRITATION, REDNESS, TEARING AND BLURRED VISION, SEVERE IRRITATION

SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE MILD SKIN IRRITATION, DRYING OF SKIN

INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION.

INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, LIVER, DIARRHEA KIDNEY AND DERMAL AILMENTS

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, 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, KEEP FROM FREEZING

=====

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.