

# TECH LINE COATINGS, INC.



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## MATERIAL SAFETY DATA SHEET

### SECTION I

**COMMON NAME (S):** MCRD, CermaRed

**CHEMICAL NAME (S) AND SYNONYM (S):** ALUMINUM FILLED METALLIC CERAMIC COATING

**CHEMICAL FAMILY:** Not Applicable

**FORMULA:** Complex Mixture

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

**INFORMATION PHONE:** 951-304-0498

**DATE PREPARED:** 9/29/2003

### SECTION II

<u>HAZARDOUS INGREDIENTS</u>	<u>CAS#</u>	<u>CONCENTRATIONS</u>
ALUMINUM POWDER ACGIH TLV: 10mg/M3	7429-90-5	<25%
PHOSPHATE/CHROMATE SOLUTION (Less than 3.% of total weight is CrO3) ACGIH TLV: 1mg/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:** GRAY 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**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 ALUMINUM AND 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:** #9910 RESPIRATOR MANUFACTURED BY 3M OR EQUIVALENT**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 IN CONTACT WITH STRONG ALKALIS OR OXIDIZING AGENTS.**NOTE:** Since this compound contains aluminum powder, 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

HMIS 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

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