

# TECH LINE Coatings

## MATERIAL SAFETY DATA SHEET

### Section 1 – Identification

**Product Identifier:** High Heat Base Coat Ceramic Coating

**Part Number:** HHBK

**Recommended Use:** Base coat film coating on auto parts

**Restrictions on Use:**

**Manufacturer / Supplier:**

Tech Line Coatings, Inc  
26844 ADAMS AVE.  
MURRIETA, CA 92562  
USA  
Phone 951-304-0834  
Fax 951-461-9658  
www.techlinecoatings.com

**Industrial Use Only**

**Keep out of reach of children.**

**Emergency Phone:** (Chemtrec) 1-800-424-9300

### Section 2 – Hazards Identification

**Classification:**

**Signal Word:** Caution

**Symbols:**

**None**

**Precautionary Statements:**

**None**

**HMIS RATINGS:**

Health hazard	2	Moderate
Flammability hazard	0	None
Reactivity hazard	0	None

**Note 1:** Testing of HHBK has shown it does not present a corrosive hazard. This product does contain Chromium Trioxide. Chromium Trioxide is a corrosive and toxic material that is considered hazardous by the OSHA communication standard (29 CFR 1910.1200). The following warnings relate to the hazards of Chromium Trioxide:

Potential health & environmental effects

Properties affecting health:

Principle routes of exposure:

Skin contact:  
absorbed through skin.

Eye contact:

Inhalation:

Ingestion:

Physico-chemical properties:

Potential environmental effects:

Harmful by inhalation. Harmful in contact with skin. Harmful if swallowed.

Eyes. Skin. Inhalation. Ingestion.

May be absorbed through the skin in harmful amounts. May be fatal if

Contact with eyes may cause irritation.

May be harmful if inhaled. May be fatal if inhaled.

May be harmful if swallowed. May be fatal if swallowed.

Contact with combustible material may cause fire.

Dangerous for the environment

### Section 3 – Composition / Information On Ingredients

Component	CAS#	% of Weight
Copper Chromite Black Spinel	68186-91-7	> 50%
Phosphate/Chromate solution	92203-02-6	> 15%

Components not listed above are non-hazardous or are Trade Secrets.

### Section 4 – First Aid Measures

**After EYE Contact:**

- Immediately irrigate with plenty of water for 15 minutes. Obtain medical attention if irritation persists.

**After SKIN Contact:**

- Remove contaminated clothing without delay. Flush skin thoroughly with water. Do not reuse clothing without laundering.

**After INHALATION:**

- Administer oxygen if there is difficulty in breathing. Obtain medical attention immediately if necessary.

**After SWALLOWING:**

- Call a physician immediately, ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

**Most Important Symptoms / Effects:**

Eye contact: Causes severe irritation

Skin contact: Causes mild skin irritation, drying of skin

Inhalation: May cause drying of nasal and respiratory tissue

Ingestion: Harmful if swallowed. May cause vomiting, nausea, diarrhea

The following warnings relate to the hazards of Chromium Trioxide:

Potential health effects

- Skin contact: May be absorbed through the skin in harmful amounts. May be fatal if absorbed through skin.
- Inhalation: May be harmful if inhaled. May be fatal if inhaled.
- Ingestion: May be harmful if swallowed. May be fatal if swallowed.

See section 11 for additional information

**Notes to Physician:** Treat symptomatically.

**Section 5 – Fire Fighting Measures**

<b>Flash Point:</b> None	<b>Flammable Limits LEL-:</b> None	<b>Flammable Limits UEL-:</b> None	<b>Stability:</b> See Section 10
<b>Extinguishing Media:</b> Product as supplied: Water, foam, co2, dry chemical, dry sand. Cool closed containers exposed to fire with water spray.		<b>Special Fire Fighting Procedures:</b> Use full protective equipment, including self contained breathing apparatus	
<b>Unusual Fire And Explosion Hazards:</b> Contact with alkalis, strong reducing or oxidizing agent may produce hydrogen gas, causing fire or explosion hazard.		<b>Specific Hazards Arising from the Chemical:</b>	

**Section 6 – Accidental Release Measures**

**Methods for Containment and Clean Up**

- Soak up with inert absorbent material.
- Keep in suitable, marked and closed containers for disposal.
- Warn other workers of spill.
- Wear protective equipment
  - NIOSH Approved Respirator
  - Gloves
  - Safety Glasses
- Do not allow material to be released into the environment.

Additional Information:

- See Section 7 for safe handling information.
- See Section 8 for PPE information
- See Section 13 for disposal information

**Section 7**

**Handling And Storage**

**Handling:**

Do not breathe vapors or mists from spraying. Avoid contact with skin and eyes. Use with adequate ventilation to maintain exposure levels below established exposure limits. Wear personal protective equipment. If required wear an appropriate NIOSH approved respirator with paint prefilter. Use explosion-proof equipment. Do not get in eyes, on skin, or on clothing.

**Storage:**

Do not store at temperatures below 55° F.

Store containers tightly closed in a dry, cool and well-ventilated place. Protect from freezing, contact with oxidizing agents, alkalis or strong reducing agents

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chromium Trioxide	TWA: 0.05 mg/m3	Ceiling: 0.1 mg/m3 TWA: 5 µg/m3	TWA: 0.001 mg/m3
Phosphoric Acid	TWA: 1 mg/m3	TWA: 1 mg/m3	
Copper chromite black spinel	1 MG/M3	1 MG/M3	

**Engineering Controls:**

- Exhaust ventilation.
- Showers
- Eyewash stations
- Use in a well-ventilated area.

**Respiratory Protection:**

Use NIOSH approved respirator if TWA/TLV limits are exceeded

**Protective Gloves:**

Chemical resistant

**Eye Protection:**

Safety glasses with side shields or goggles

**Other Protective Equipment:**

with skin or eyes

Wear protective clothing, chemical resistant or other protective outerwear, avoid contact

**Ventilation:** Local Exhaust: Use To Maintain Below TWA Limits  
**Mechanical:** Use Non-Sparking Equipment  
**Work / Hygienic Practices:** wash thoroughly after handling product and before eating, drinking or smoking

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance; Black liquid  
 Odor; None  
 Odor threshold; N/A  
 pH; 2.1 – 2.6  
 Melting point/freezing point; N/E  
 Initial boiling point and boiling range; N/E  
 Flash point; None  
 Evaporation rate; N/E  
 Flammability; Not Flammable  
 Upper/lower flammability or explosive limits; N/A  
 Vapor pressure; N/E  
 Vapor density; > 1  
 Relative density; 13.86 lbs/gal  
 Solubility in water; Appreciable  
 Decomposition temperature; N/E  
 Viscosity. N/E  
 VOC: 0

**SECTION 10  
 STABILITY AND REACTIVITY**

**Stability:** STABLE

**Incompatibility (Materials to Avoid):** Strong alkalis or oxidizing agents

**Hazardous Decomposition Products:** Carbon Monoxide and Unidentified Organics may be formed.

**Hazardous Polymerization:** WILL NOT OCCUR

**Conditions to Avoid:** Avoid contact with Oxidizing Agents, Sparks or Flame

**SECTION 11  
 TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Component Information**

Chromium Trioxide – 1333-82-0

**Product Information**

**LC50/inhalation/4h/rat** = 217 mg/m3

**LD50/dermal/rabbit** = 57 mg/kg

**LD50/oral/rat** = 51 mg/kg

**Local effects**

**Skin contact:** May be absorbed through the skin in harmful amounts. May be fatal if absorbed through skin.

**Eye contact:** Contact with eyes may cause irritation.

**Inhalation:** May be fatal if inhaled.

**Ingestion:** May be fatal if swallowed.

**Sensitization:** May cause sensitization by inhalation and skin contact.

**Specific effects**

**Carcinogenic effects:** The National Toxicology Program (NTP) has designated Hexavalent Chromium Compounds as Known Human Carcinogens. The International Agency for Research on Cancer (IARC) has identified Hexavalent Chromium Compounds as Carcinogenic to Humans (group 1). The American Conference of Governmental Industrial Hygienists (ACGIH) has identified Water-Soluble Hexavalent Chromium Compounds as Confirmed Carcinogens.

**Mutagenic effects:** No information available

**Reproductive toxicity:** No information available

**Target organ effects:** Eyes. Skin. Kidney. Respiratory system. Liver.

PHOSPHORIC ACID 7664-38-2

**Product Information**

ORAL RAT LD50: 1530 MG/KG; INVESTIGATED AS A MUTAGEN.

**Carcinogenic substances**

Components	NTP:	IARC:	OSHA	ACGIH
Chromium trioxide	Known Carcinogen (listed under Chromium hexavalent compounds)	1	Present	

## SECTION 12

### ECOLOGICAL INFORMATION

**General Comments:** Do not allow material to be released into the environment without proper governmental permits

**Environmental Hazard:**

**PHOSPHORIC ACID**

When released into the soil, this material may leach into groundwater. when released to water, acidity may be readily reduced by natural water hardness minerals. The phosphate, however, may persist indefinitely.

**Chromium Trioxide**

**Aquatic toxicity:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Mobility:** No information available

**Bioaccumulative potential:** Not determined

**Freshwater Fish Species:** 96 h LC50 (Colisa fasciatus) = 40 mg/L

## SECTION 13

### DISPOSAL CONSIDERATIONS

**Waste Disposal Method:**

Disposal should be made in accordance with federal, state and local regulations. Recovered non-usable material is a RCRA hazardous waste. Treatment, storage, transportation and disposal must be in accordance with EPA and State regulation under the authority of the Resource Conservation and Recovery Act (RCRA) 40 CFR parts 260-271. A competent and properly permitted contractor should do appropriate disposal.

## SECTION 14

### TRANSPORTATION INFORMATION

**Hazardous for Shipping:** Not Regulated for Shipping

## SECTION 15

### REGULATIONS

**Information about Limitation or Use:**

Industrial use only.

**Other Regulations, Limitations, and Prohibitive Regulations:**

**International Inventories**

**All of the components in this product are on or exempt from the following inventories:**

USA (TSCA), CANADA (DSL / NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

**International Inventory Legend**

TSCA: US - Toxic Substance Control Act

DSL: Canada - Domestic Substance List

NDSL: Canada - Non-Domestic Substance List

IECSC: China - Inventory of Existing Chemical Substances

EINECS: EU Inventory of Existing Commercial Chemical Substances

ELINCS: EU List of Notified Chemical Substances

ECL: Korea - Existing Chemicals List

AICS: Australia - Inventory of Chemical Substances

ENCS: Japan - Existing and New Chemical Substances

PICCS: Phillipines - Inventory of Chemicals and Chemical Substances

**U.S. Regulations:**

Name	CAS No.	HAP	SARA 302	SARA 311	SARA 313	CA Prop 65
Chromium	1333-82-0	Yes	No	Acute	Yes	Yes
Copper chromite black spinel (Chromium (III) compounds (as Cr) ) (Copper dusts and mists (as Cu) )	68186-91-4				Yes	

## SECTION 16

### OTHER INFORMATION

**Date Prepared:** 11/21/2010 Update

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