

# TECH LINE Coatings

## SAFETY DATA SHEET

### Section 1 – Identification

**Product Identifier:** Powerkote C-Lube

**Part Number:** CCL

**Recommended Use:** 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.  
Not recommended for use on Medical equipment.  
Not recommended for use on Aviation equipment.  
**Emergency Phone:** (Chemtrec) 1-800-424-9300

### Section 2 – Hazards Identification

**Signal Word:** Danger

**Symbols:**



This mixture has been tested using the Corrositex test method in compliance with EPA method 1120, and the OECD Guideline For The Testing Of Chemicals number 435, and found to be **not** corrosive.

#### Hazard Statements:

Toxic if swallowed  
Fatal if inhaled  
Fatal in contact with skin  
Causes Skin Irritation  
Causes serious eye damage  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause genetic defects  
May cause cancer  
Suspected of damaging fertility or the unborn child  
Causes damage to the tissue of the mucous membranes and upper respiratory tract through prolonged or repeated exposure by inhalation.

#### GHS Classification:

GHS Classification:	Category
Acute Toxicity Oral	3
Acute Toxicity Inhalation	2
Acute Toxicity Dermal	2
Skin Irritation	2
Serious Eye Damage	1
Respiratory Sensitization	1
Skin Sensitization	1
Germ Cell Mutagenicity	1B
Carcinogenicity	1A
Reproductive Toxicity	2
Specific Target Organ Toxicity Repeated Or Prolonged Exposure	1

#### Precautionary Statements:

Do not breath fumes / mist / vapors / spray. Use only outdoors or in a well ventilated area. Wear respiratory protection, eye protection, face protection, protective gloves, protective clothing. Do not get in eyes, on skin, or on clothing. Wash hands, face and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Contaminated clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat drink or smoke when using this product. Store locked up. Store in a well ventilated place. Keep container tightly closed.  
If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center / doctor for medical advice.  
If swallowed: immediately call a poison center / doctor for medical advice. Rinse mouth with water.

If on skin: wash with plenty of water. Immediately call a poison center / doctor for advise. Immediately take off all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice / attention.

If in eyes: Rinse cautiously in water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center / doctor for advise

If exposed or concerned: Get medical advise / attention, from a poison center / doctor if you feel unwell.

Dispose of Contents / container in accordance with regulations in your area. See section 13 for additional information.

### **Section 3 – Composition / Information On Ingredients**

<b>Component Name</b>	<b>Common Name / Synonyms</b>	<b>CAS#</b>	<b>% of Weight</b>
Molybdenum Disulfide	MoS <sub>2</sub>	1317-33-5	> 16%
Phosphoric Acid	H3O4P	7664-38-2	Trade Secret
Chromium Trioxide	Chromic Anhydride, Chromium(VI) oxide	1333-82-0	< 1.1%
Chromium	Chromium(III) oxide	1308-38-9	Trade Secret

Components not listed above are less than reportable quantity or non-hazardous.

### **Section 4 – First Aid Measures**

#### **General advise:**

- Consult a physician. Show this Safety Data Sheet to the doctor in attendance. Move out of dangerous area.

#### **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.

See section 11 for additional information

Notes to Physician: Treat symptomatically.

### **Section 5 – Fire Fighting Measures**

Not Flammable

#### **Extinguishing Media:**

- Water spray, alcohol resistant foam, co2, dry chemical, dry sand.

#### **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.

#### **Specific Hazards Arising from the Chemical:**

- Water runoff can cause environmental damage, dike and collect water used to fight fire.

### **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
- Stop leak if you can do so without risk.
- Do not allow material to be released into the environment.
- Retain all contaminated water for removal and treatment. DO NOT flush to sewer.

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.  
 Do not get in eyes, on skin, or on clothing.

**Storage:**

Keep containers tightly closed in a dry, and well-ventilated place. Do not store below 55° F. or coating will need to be re-dispersed at a high speed. 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 REL
Molybdenum Disulfide	10 mg/m3	10 mg/m3	5000 mg/m3 IDLH
Phosphoric Acid	1 mg/m3	1 mg/m3	1 mg/m3
Chromium Trioxide	No data available	Airborne 5 micrograms/m3	0.001 mg/m3
Chromium	0.5 mg/m3	0.5 mg/m3	0.5 mg/m3

**Engineering Controls:** Exhaust ventilation. With HEPA filter.  
 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, Nitrile or similar

**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

**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**

Form : liquid

Color : Dark Grey

Odor : Slightly musty smell to no odor

Odor Threshold: Not Established

pH : 1.8 to 2.6

Melting point / Freezing point: Not Established

Initial boiling point : Not Established

Flash point : > 212° F (Water based)

Evaporation Rate: Not Established

Upper/lower flammability or explosive limits: Not Established

Vapor pressure Not Established

Vapor density Not Established

Relative density Not Established

Solubility(ies) Water: somewhat soluble

Partition coefficient: n-octanol/water Not Established

Auto-ignition temperature Not Established

Decomposition temperature Not Established

Viscosity Not Established

Total VOC 0 lbs/gal

## SECTION 10 STABILITY AND REACTIVITY

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Reactivity	No data available on mixture
Chemical stability	Stable
Possibility of hazardous reactions	No data available on mixture
Conditions to avoid (e.g., static discharge, shock, or vibration)	No data available on mixture
Incompatible materials	Magnesium, strong alkalis, strong reducing agents, strong oxidizing agents.
Hazardous decomposition products	No data available on mixture

## SECTION 11 TOXICOLOGICAL INFORMATION

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### Potential Health Effects

<b>Inhalation</b>	Causes damage to the tissue of the mucous membranes and upper respiratory tract through prolonged or repeated exposure by inhalation; May cause allergy or asthma symptoms or breathing difficulties if inhaled; Fatal if inhaled
<b>Ingestion</b>	Toxic if swallowed
<b>Skin</b>	May cause an allergic skin reaction; See Note*; Fatal in contact with skin
<b>Eyes</b>	Causes serious eye damage

#### Note\*

This mixture has been tested using the Corrositex test method in compliance with EPA method 1120, and the OECD Guideline For The Testing Of Chemicals number 435, and found to be **not** corrosive.

### Acute Toxicity

Molybdenum Disulfide	Oral LD50	no data available
	Inhalation LC50	LC50 Inhalation - rat - 4 h - > 2,820 mg/m <sup>3</sup> Remarks: Lungs, Thorax, or Respiration:Other changes.
	Dermal LD50	no data available
Phosphoric Acid	Oral LD50	LD50 Oral - rat – 1,530 mg/kg
	Inhalation LC50	LC50 - rabbit – 5.337 mg/l Exposure time: 1 h
	Dermal LD50	LD50- rabbit – 1,260 mg/kg
Chromium Trioxide	Oral LD50	LD50 Oral - rat - male and female - 52 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - male - 4 h - 217 mg/m <sup>3</sup>
	Dermal LD50	LD50 Dermal - rabbit - male and female - 57 mg/kg
Chromium	Oral LD50	LD50 Oral - rat - > 10,000 mg/kg
	Inhalation LC50	No data available
	Dermal LD50	No data available

### Skin Corrosion/Irritation

This mixture has been tested using the Corrositex test method in compliance with EPA method 1120, and the OECD Guideline For The Testing Of Chemicals number 435, and found to be **not** corrosive.

### Serious Eye Damage/Eye Irritation

Molybdenum Disulfide	No data available
Phosphoric Acid	No data available
Chromium Trioxide	Eyes - rabbit - Corrosive to eyes
Chromium	Eyes - rabbit - Mild eye irritation

Nickel

No data available

**Respiratory Or Skin Sensitization**

No data available

**Germ Cell Mutagenicity**

Molybdenum Disulfide

No data available

Phosphoric Acid

No data available

Chromium Trioxide

May alter genetic material.

In vivo tests showed mutagenic effects

Chromium

No data available

Nickel

No data available

**Carcinogenicity**

IARC: 1 - Group 1: Carcinogenic to humans (Chromium trioxide)

3 - Group 3: Not classifiable as to its carcinogenicity to humans (Chromium (III) oxide)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Known to be human carcinogen (Chromium trioxide)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

This product contains a component that has been reported to be carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

**Reproductive Toxicity**

Molybdenum Disulfide

No data available

Phosphoric Acid

No data available

Chromium Trioxide

May cause reproductive disorders.

Chromium

No data available

**Specific Target Organ Toxicity Single Exposure**

No data available

**Specific Target Organ Toxicity Repeated Or Prolonged Exposure**

Molybdenum Disulfide

No data available

Phosphoric Acid

No data available

Chromium Trioxide

Eyes. Skin. Kidney. Respiratory system. Liver.

Chromium

No data available

Nickel

Inhalation - Causes damage to organs through prolonged or repeated exposure.

**Aspiration Hazard**

No data available

**SECTION 12 ECOLOGICAL INFORMATION**

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

**Environmental Toxicity:****Molybdenum Disulfide**

Toxicity to fish	No data available
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Toxicity to daphnia and other aquatic invertebrates	No data available
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**Phosphoric Acid**

Toxicity to fish	LC50: 75.1 mg/l Exposure time: 96 h Species: Oryzias latipes (Japanese medaka)
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Toxicity to daphnia and other aquatic invertebrates	EC50: 376 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
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Toxicity to algae	EC50: 32 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)
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**Chromium Trioxide**

Toxicity to fish	LC50 - Tilapia mossambica - 21.05 - 141.38 mg/l - 96.0 h LC0 - Leuciscus idus (Golden orfe) - 100 mg/l - 48.0 h
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Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.8 mg/l - 48 h
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**Chromium**

Toxicity to fish	No data available
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Toxicity to daphnia and other aquatic invertebrates	No data available
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Toxicity to algae	No data available
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**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

**SECTION 13 DISPOSAL CONSIDERATIONS**

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**Waste Disposal Method:**

Do not dispose of in sewer or public waterways.

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**

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**Hazardous for Shipping:** Not regulated or restricted for shipping

Based on 49 CFR and IATA classification process, this product mixture is not restricted or regulated.

**SECTION 15 REGULATIONS**

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**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 China

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:**

Component	SARA 302	SARA 313	Massachusetts RTK	Pennsylvania RTK	New Jersey RTK	California Prop 65 list
Molybdenum Disulfide	No	No	Yes	Yes	Yes	No
Phosphoric Acid	No	No	Yes	Yes	Yes	No
Chromium Trioxide	No	Yes	Yes	Yes	Yes	Yes
Chromium	No	Yes	Yes	Yes	Yes	No

**SARA 311 / 312 Hazards:** Acute Health Hazard, Chronic Health Hazard

**SECTION 16**

**OTHER INFORMATION**

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