

THE CHARLES MACHINE WORKS, INC.  
P/N's 256-025, 256-031, & 256-663  
MATERIAL SAFETY DATA SHEET 2560250

1

Revised/Issued: June 7, 2004

**SECTION 1 - MATERIAL IDENTIFICATION**

Product **ProTech® Copper Tool Joint Compound – Summer Grade**  
Chemical Family Petroleum based lubricating grease.  
Use Tool joint compound  
Distributed By Charles Machine Works, Inc., 1959 W. Fir Ave., Perry, OK 73077  
 (580)336-4402, FAX (580)336-5452, Emergency (580)336-4402,  
 Chemtrec 24 hours (USA) (800)424-9300

HMIS/NFPA Rating		HMIS Rating Scale	
Health	<b>1</b>	4 = Extreme	
Fire	<b>1</b>	3 = High	
Reactivity	<b>1</b>	2 = Moderate	
Personal Protection Index	<b>B</b>	1 = Slight	
		0 = Insignificant	

**SECTION 2 - INGREDIENTS**

MATERIAL	CAS NUMBER	PEL/TLV, SOURCE	Other Limit STEL	PERCENT (wt.)
Petroleum Oil	64742525	Oil Mist TWA-5 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>	40-60
Non-hazardous Blend	3159624/7620771 7782425/1317335 12001262 14807966/1317653	UN	UN	20-30
Metallic Copper	7440508	1 mg/ m <sup>3</sup>	2 mg/ m <sup>3</sup>	2-10

**SECTION 3 - PHYSICAL DATA**

<u>Boiling Range</u>	<600 °F (316 °C)	<u>Melting Point</u>	450 °F (232 °C)
<u>Vapor Pressure (kPa)</u>	<0.01	<u>Vapor Density (Air = 1)</u>	>5
<u>Solubility in Water</u>	Nil	<u>Oxidizing Properties</u>	None
<u>Density (g/cm<sup>3</sup>)</u>	1.17	<u>Percent Volatile by Weight</u>	Nil
<u>Evaporation Rate (Butyl Acetate = 1)</u>			<0.01
<u>pH</u>	Neutral	<u>OAR Value</u>	Not Applicable
<u>Appearance and Odor</u>			Copper-bronze semi-solid paste with petroleum odor.
<u>Partition Coefficient (Log Pow)</u>			Not Applicable

**SECTION 4 - HAZARDOUS REACTIVITY**

Stability Chemically stable under normal conditions. No photoreactive agents.  
Conditions to Avoid Powerful sources of ignition and extreme temperatures.  
Materials to Avoid Strong inorganic & organic acids, oxidizing agents & copper reactive agents.  
Hazardous Decomposition Products Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon sulfur and nitrogen. Residue mainly comprised of soot & mineral oxides.

---

SECTION 5 - FIRE AND EXPLOSION HAZARDS

---

<u>Flash Point (COC)</u> °C)	>320 °F (160 °C)	<u>Autoignition Temperature</u>	>500 °F (260 °C)
<u>Flammability</u>	Not flammable at ambient temperature.		
<u>Explosive Properties</u>	<u>LEL</u> 0.9%	<u>UEL</u>	7%
<u>Extinguishing Media</u>	Foam, dry powder, Halon <sup>®</sup> , carbon dioxide, sand, earth & water mist.		
<u>Unsuitable Extinguishing Media</u>	Water Jet		
<u>Protective Equipment for Firefighting</u>	Self-contained breathing apparatus		

---

SECTION 6 - HEALTH HAZARD DATA

---

<u>Effect of Overexposure - Ingestion</u>	May cause diarrhea.
<u>Effect of Overexposure - Inhalation</u>	Viscous nature may block breathing passages if inhaled.
<u>Effects of Overexposure - Skin Contact</u>	For hypersensitive persons, may irritate the skin after prolonged periods of contact.
<u>Effects of Overexposure - Eye Contact</u>	May cause irritation.

---

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

---

<u>Inhalation</u>	Clear air passage. If respiratory difficulty continues, seek medical help.
<u>Skin Contact</u>	Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.
<u>Eye Contact</u>	Flush with water until all residual material is gone. If irritation persists, seek medical help.
<u>Ingestion</u>	Wash out mouth immediately. Consult physician.

---

SECTION 8 - SPILL OR LEAK PROCEDURES

---

<u>Personal Precautions</u>	Wear gloves & protective overalls.
<u>Environmental Precautions</u>	Do not allow it to enter drains.
<u>Spillage</u>	Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

---

SECTION 9 - SPECIAL PROTECTION INFORMATION

---

<u>Respiratory Protection</u>	None needed.
<u>Body Protection</u>	Overalls
<u>Protective Gloves</u>	Protective gloves for hypersensitive persons.
<u>Eye Protection</u>	Glasses, if applied to moving parts in motion.

---

SECTION 10 - TOXICOLOGICAL INFORMATION

---

<u>Acute Toxicity</u>	Not known	<u>Irritancy - Skin</u>	Very mild	<u>Allergens</u>	None known
<u>Skin Sensitization</u>	Not known	<u>Sub-acute/sub-chronic Toxicity</u>	Not known		
<u>Chronic Toxicity</u>	None known	<u>Genotoxicity</u>	None known		
<u>Carcinogens</u>	<u>NTP</u> No	<u>IARC</u>	No	<u>OSHA</u>	No
<u>EC Classification (67/548/EEC)</u>	No	<u>California Prop 65 Agents</u>	Not Applicable		
<u>LC-50</u>	>2000 mg/L - actual test data (Oncorhynchus Mykiss)	<u>LD-50</u>	Not applicable		

---

SECTION 11 - ECOLOGICAL INFORMATION

---

<u>Possible Effects</u>	In extreme cases, may generate oil fractions that could act as a marine pollutant. Occurrences of this nature are highly unlikely.
<u>Behavior</u>	Relatively well behaved. Bioaccumulation potential nil.
<u>Environmental Fate</u>	Highly unlikely to cause widespread contamination. Nontoxic to marine or land organisms.
<u>Product Disposal</u>	Do not incinerate. Contact waste disposal company or local authority for advice.
<u>Container Disposal</u>	Pails without liner see "Product Disposal." Pails with plastic liner - pail can only be disposed of via standard waste disposal services, recycled or reused. Liner - see "Product Disposal."

---

SECTION 12 - HANDLING AND STORAGE PRECAUTIONS

---

<u>Precautions To Be Taken In Handling &amp; Storage</u>	No special handling precautions necessary. Do not store at elevated temperatures.
<u>DOT Non-hazardous UN Number</u>	Not Applicable
<u>Road &amp; Rail Transport (ADR/Rid)</u>	Not Applicable
<u>Sea Transport (IMO &amp; IMDG)</u>	Not Applicable
<u>Air Transport (ICAO &amp; IATA)</u>	Not Applicable
<u>Label Required</u>	None needed.

---

SECTION 13 - REGULATORY INFORMATION

---

<u>R Phrases</u>	R22 harmful if swallowed	<u>S Phrases</u>	None applicable, as known
<u>EC Annex 1 Classification</u>			Not Applicable
<u>Ozone Depleting Chemicals</u>			Not Applicable
<u>CERCLA</u>	Nonhazardous	<u>RCRA Hazard Class</u>	Nonhazardous
<u>WHMIS (Canada)</u>	Not regulated	<u>Canadian DSL</u>	All components are listed
<u>TSCA</u>	All components are listed	<u>TSCA 12 B Components</u>	None
<u>40 CFR Part 572 (SARA Section 313)</u>			This product contains copper.

---

SECTION 14 - OTHER INFORMATION

---

<u>SDS first issued</u>	SDS data revised
<u>New Jersey Right To Know</u>	See Section II.

---

Disclaimer: The information contained herein is accurate and reliable as of the date of revision to the best of The Charles Machine Works' knowledge. The Charles Machine Works doesn't warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising from the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

Information copied from MSDS dated July 26, 2001 by R. Lambert.