

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

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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	1	4 = Extreme	
Fire	1	3 = High	
Reactivity	1	2 = Moderate	
Personal Protection Index	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.

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SECTION 5 - FIRE AND EXPLOSION HAZARDS

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<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		

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SECTION 6 - HEALTH HAZARD DATA

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<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.

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SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

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<u>Inhalation</u>	Clear air passage. If respiratory difficulty continues, seek medial 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.

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SECTION 8 - SPILL OR LEAK PROCEDURES

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<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.

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SECTION 9 - SPECIAL PROTECTION INFORMATION

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<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.

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SECTION 10 - TOXICOLOGICAL INFORMATION

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<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

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SECTION 11 - ECOLOGICAL INFORMATION

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<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."

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SECTION 12 - HANDLING AND STORAGE PRECAUTIONS

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<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.

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SECTION 13 - REGULATORY INFORMATION

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<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.

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SECTION 14 - OTHER INFORMATION

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

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