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Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: PC COPPER ANTI-SEIZE LUBRICANT 454G
Item No: 09124
Product Type: Lubricant

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC 64742-52-5	30-40	>5000 mg/kg	2.18 mg/L/4H	
COPPER 7440-50-8	15-25	not available	not available	0.2 mg/m ³
CALCIUM OXIDE 1305-78-8	10-20	500 mg/kg	not available	2 mg/m ³
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC 64742-53-6	5-15	>5000 mg/kg	2.18 mg/L/4h	5 mg/m ³ TWA ACGIH
GRAPHITE 7782-42-5	5-15	not available	not available	2 mg/m ³
LITHIUM SOAP MIXTURE	<3	not available	not available	
MINERAL OIL 8042-47-5	<3	>5 g/kg	not available	5 mg/m ³ TWA (oil mist) ACGIH

III. PHYSICAL DATA

Physical State/Appearance: Copper-colored liquid
Odour & Odour Threshold: Slight petroleum odour
Specific Gravity: 1.31
Evaporation Rate: <1 (butyl acetate = 1)
Vapour Pressure: Not determined
Vapour Density: Heavier than air
Freezing Point: Not determined
pH: Does not apply
Octanol/Water Coefficient: Not determined
Boiling Point: >290°C

IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon dioxide, Dry chemical, Foam
Hazardous Combustion Products: Oxides of carbon, Oxides of sulfur
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.
Conditions of Flammability: None anticipated
Flash Point/Range: 140°C
Autoignition Temperature: Not determined
Upper Explosive Limit: Not determined
Lower Explosive Limit: Not determined

V. REACTIVITY DATA

Conditions Causing Chemical Instability: None
Materials to avoid: Incompatible with strong bases and oxidizing agents, Acids
Conditions of Reactivity: None
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Oxides of sulfur

VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure:	Eye and skin contact, ingestion, inhalation
Existing Conditions Aggravated by Exposure:	Individuals with respiratory problems such as emphysema and asthma should avoid inhalation..
Toxicity Information:	(See Effects of Acute Exposure to Product)
Effects of Acute Exposure:	High concentration may cause respiratory irritation and central nervous system depression with dizziness, headache, unconsciousness. Moderately toxic if swallowed. Irritating to mouth, throat and stomach with nausea. May cause eye/skin irritation. Signs of eye irritation include pain, redness, swelling, excessive blinking and tear production. This product contains encapsulated metal powder which contains copper and/or zinc. No exposure to free metal is anticipated. If grinding or machining, wear NIOSH-approved respirator.
Effects of Chronic Exposure:	Since this product contain copper compounds, individuals with Wilson's Disease should avoid exposure to this product.
Irritancy of Product:	See (Effects of Acute Exposure to Product)
Sensitization to Product:	(See Effects of Acute Exposure to Product)
Carcinogenicity:	(See Effects of Chronic Exposure to Product)
Reproductive Toxicity:	(See Effects of Chronic Exposure to Product)
Teratogenicity:	(See Effects of Chronic Exposure to Product)
Mutagenicity:	(See Effects of Chronic Exposure to Product)
Toxicologically Synergistic Products:	None known
WHMIS Hazard Class:	D2B TOXIC MATERIALS

VII. PREVENTATIVE MEASURES

Personal Protection	
Eyes:	Safety glasses.
Skin:	Neoprene or nitrile gloves recommended.
Ventilation:	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product. In case of insufficient ventilation, wear an organic vapor respirator.
Engineering Controls:	
Spill Procedures:	Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
Protection of Man and Environment:	Follow Canadian and local regulations for disposal.
Handling Procedures and Equipment:	Use with adequate ventilation. Use good personal hygiene. Avoid smoking, eating or drinking during use. Wash with soap and water after handling.
Special Handling Information:	Store in a cool, dry, well-ventilated area. Avoid contact with skin and eyes.

VIII. FIRST AID MEASURES

Ingestion:	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.
Skin Contact:	Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

IX. SHIPPING INFORMATION

Canadian Transportation of Dangerous Goods

Proper Shipping Name:	Not Regulated
Hazard Class:	None
UN/ID No:	None

IATA

Proper Shipping Name:	Not regulated
Class or Division:	None
UN/ID Number:	None

IMDG

Proper Shipping:	Not regulated
Hazard Class:	None
UN Number:	None

X. PREPARATION INFORMATION

Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0
HMIS is a registered trademark of the National Paint and Coatings Assn.

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0
NFPA is a registered trademark of the National Fire Protection Assn.

**Product Name: PC COPPER ANTI-SEIZE LUBRICANT
454G**

Item No: 09124

X. PREPARATION INFORMATION

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety

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Company:
Permatex Canada, Inc. 8450 Lawson Rd. Unit 1, Milton, ON L9T 0A4

Revision Number: 4

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