

1117/05

PERMATEX INDUSTRIAL CORPORATION

07/02/97

ROCKY HILL, CONNECTICUT 06067  
TELEPHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

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Anti-Seize Lubricant  
80209

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Anti-Seize Lubricant  
Item No.: 80209  
Product Type: Lubricant

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Mineral oil	64742-52-5	40-50
COPPER*	7440-50-8	10-15
GAS OIL	64741-44-2	10-15
ALUMINUM	7429-90-5	5-10
Mineral oil, petroleum distillates	64742-53-6	0-10
Graphite	7782-42-5	1-3
Lithium soap	7620-77-1	1-3
SILICA, AMORPHOUS, precipitated	112926-00-8	1-3

\* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Mineral oil	5 mg/m3 mist	5 mg/m3 mist	5 mg/m3 mist
COPPER	1 mg/m3 dust	1 mg/m3 dust	None
GAS OIL	5mg/m3 TWA mist	5mg/m3 TWA mist	None
ALUMINUM	10 mg/m3 dust	15 mg/m3 dust	None
Mineral oil, petroleum distillates	5 mg/m3 mist	5 mg/m3 mist	None
Graphite	2.5 mg/m3 dust, respirable	2.5 mg/m3 dust, respirable	None
SILICA, AMORPHOUS, precipitated	10 mg/m3 TWA	6 mg/m3 TWA	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
Mineral oil	10 mg/m3 mist	None	
GAS OIL	10 mg/m3 mist	None	
Mineral oil, petroleum distillates	10 mg/m3 mist	None	

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3. HAZARDS IDENTIFICATION

Toxicity: May irritate eyes or skin. Vapors or direct contact may irritate or burn nose and throat. Swallowing may irritate digestive tract and cause nervous system depression. Prolonged skin contact with copper may cause sensitization dermatitis. Copper dusts and mists are eye and mucous membrane irritants and skin sensitizers. Swallowing copper compounds may cause vomiting and collapse. Target organs include respiratory system, nasal septum, skin, eyes, gastrointestinal system, kidneys, liver, and cardiovascular system.

Primary Routes of Entry: Ingestion, inhalation, skin and eye contact.  
 Signs and symptoms of Exposure: May cause skin or eye irritation with prolonged or repeated contact. Metal-fume fever, metallic taste, discoloration of skin or hair may indicate exposure to copper. Hemolysis, jaundice, anuria, hypotension, and convulsions may indicate acute copper poisoning.

Existing Conditions Aggravated by Exposure: Graphite powder, emphysema, asthma, and other respiratory problems.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Mineral oil	IRR	NO	NO	NO
COPPER	BLO CNS GAS IMM IRR KID LIV MUT SEN SKI	NO	NO	NO
GAS OIL	No Data	NO	NO	NO
ALUMINUM	IRR LUN	NO	NO	NO
Mineral oil, petroleum distillates	IRR	NO	NO	NO
Graphite	LUN	NO	NO	NO
Lithium soap	No Data	NO	NO	NO
SILICA, AMORPHOUS, precipitated	NUI	NO	NO	NO

Abbreviations

- BLO Blood
- GAS Gastrointestinal
- IRR Irritant
- LIV Liver
- MUT Mutagen
- SEN Sensory
- CNS Central nervous system
- IMM Immune system
- KID Kidney
- LUN Lung
- NUI Nuisance dust
- SKI Skin

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4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.  
Inhalation: Oil mist: Remove to fresh air. If symptoms persist, obtain medical attention.  
Skin Contact: Flush with water.  
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: None Method: Tag, Closed Cup  
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical  
Hazardous Products formed by Fire or Thermal Decomp: Metal vapors, oxides of carbon, nitrogen, barium, zinc, sulfur; hydrogen sulfide.  
Unusual Fire or Explosion Hazards: None  
Explosive Limits:  
(% by volume in air) Lower 30% Aluminum metal  
1% Gas oil  
(% by volume in air) Upper Unknown Aluminum metal  
7% Gas oil

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove sources of ignition. Take up with an inert absorbent. Store in a closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Keep away from sources of ignition and hot surfaces.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)  
Handling: Keep away from eyes. Avoid prolonged skin contact. Avoid prolonged breathing of vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
Skin: Neoprene or oil resistant plastic gloves.  
Ventilation: Provide adequate local ventilation to maintain vapor concentration below TLV if misting of oil

occurs or compound becomes dry.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION

(continued)

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey grease  
Odor: Petroleum  
Boiling Point: More than 500°F  
pH: Does not apply  
Solubility in Water: Nil  
Specific Gravity: 1.1242  
Volatile Organic Compound (EPA Method 24): 10.66%; 122 grams per liter  
Vapor Pressure: Less than 5mm at 80°F  
Vapor Density: Approximately 2.9  
Evaporation Rate (Ether = 1): Not available

10. STABILITY AND REACTIVITY

Stability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Strong oxidizers, alkalies, mineral acids, selected amines.  
Conditions to Avoid: Not available  
Hazardous Decomposition Products (non-thermal): Noxious carbon compounds, hydrogen.

11. TOXICOLOGICAL INFORMATION

See Section 9.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations. Do not incinerate pressurized cans.

EPA Hazardous Waste Number: NH - Not a RCRA Hazardous waste material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted

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14. TRANSPORTATION INFORMATION

(continued)

Hazard Class or Division: Unrestricted  
Identification Number: None  
Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted  
Class or Division: Unrestricted  
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: No Proposition 65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:  
Health Hazard: 1  
Fire Hazard: 1  
Reactivity Hazard: 1  
Specific Hazard: Does not apply

Estimated HMIS(R) Code:  
Health Hazard: 1  
Flammability Hazard: 1  
Reactivity Hazards: 1  
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.  
HMIS is a registered trademark of the National Paint and Coatings Assn.

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