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U.S. DEPARTMENT OF LABOR

WORKPLACE STANDARDS ADMINISTRATION

Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: PEMACO INC.	EMERGENCY TELEPHONE NO.: (213) 581-7158
ADDRESS (Number, Street, City, State, and ZIP Code): 5989 District Blvd., Maywood, Ca. 90270	
CHEMICAL NAME AND SYNONYMS: Sulfo-chlorinated cutting oil.	TRADE NAME AND SYNONYMS: PEMS 11570
CHEMICAL FAMILY: Mineral oil plus additives	FORMULA: TM 11570

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
none		

SECTION III PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H_2O=1) @60°F	0.922
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (1 = =1)	
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR: amber liquid with characteristic mild odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 300°F., C.O.C.	FLAMMABLE LIMITS: N.A.	Lel	Uel

EXTINGUISHING MEDIA: Dry chemical type preferred

SPECIAL FIRE FIGHTING PROCEDURES: none

UNUSUAL FIRE AND EXPLOSION HAZARDS: none

EXHIBIT A

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	5 mg./cubic meter. (applies to oil mist only)
EFFECTS OF OVEREXPOSURE	slight irritation to eyes and skin
EMERGENCY AND FIRST AID PROCEDURES	Skin-remove by wiping and/or applying a waterless hand cleaner followed by washing with soap and water. EYES- wash with copious amounts of water

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATABILITY *(Materials to avoid)*			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Soak up spill with an inert oil absorbing material
WASTE DISPOSAL METHOD	Controlled burning

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*	none normally requied	
VENTILATION	LOCAL EXHAUST as requied if mist is generated	SPECIAL
	MECHANICAL *(General)*	OTHER
PROTECTIVE GLOVES	not normally needed	EYE PROTECTION Goggles if oil is being sprayed
OTHER PROTECTIVE EQUIPMENT		

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Sore in a cool place. Avoid breathing of oil mist and/or prolongrd contact with the skin
OTHER PRECAUTIONS	

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