Bactericide, Metalworking Coolants

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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 INCORPORATED	EMERGENCY TELEPHONE NO.: 581-7185
ADDRESS (Number, Street, City, State, and ZIP Code): 5989 District Blvd. Los Angeles, Calif. 90040	
CHEMICAL NAME AND SYNONYMS: Tris(hydroxymethyl)nitromethane	TRADE NAME AND SYNONYMS: Formula 350
CHEMICAL FAMILY: Nitro alcohol	FORMULA: $(CH_2OH)_3CNO_2$

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)
Tris(hydroxymethyl)nitromethane	50	
Water	50	

SECTION III PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H_2O=1) 20/20°C	1.222
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____=1)	
SOLUBILITY IN WATER	220g/100ml	Mol. Wt. anhyd. calcd.	151.124
APPEARANCE AND ODOR: Colorless to pale yellow liquid, faint mild odor.			

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA: Water			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

EXHIBIT A

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE
Not a primary irritant and not a sensitizing agent.

May be harmful if swallowed.

EMERGENCY AND FIRST AID PROCEDURES
Flush off, wash with soap and water. This material is not a sensitizer.

SECTION VI REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		Alkaline pH unless this is essential to its action.
	STABLE	Neutral	

INCOMPATABILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS
At alkaline PH will release formaldehyde.

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Flush away with water.

WASTE DISPOSAL METHOD
Flush to sewer with plenty of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*

VENTILATION		
	LOCAL EXHAUST	SPECIAL
	MECHANICAL *(General)*	OTHER

PROTECTIVE GLOVES | EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Crystallization point, approximately 60°F. Keep warm.

OTHER PRECAUTIONS
See NP Technical Data Sheet No. 5