U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

DPM 460
ZINC CHROMATE PRIMER

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

DECEMBER 1984

SECTION I

MANUFACTURER'S NAME: Koppers Company, Inc.	EMERGENCY TELEPHONE NO.: 412-227-2000
ADDRESS (Number, Street, City, State, and ZIP Code): Pittsburgh, PA 15219	
CHEMICAL NAME AND SYNONYMS: Alkyd-Phenolic	TRADE NAME AND SYNONYMS: Primer, Zinc Chromate
CHEMICAL FAMILY: Alkyd-Phenolic	FORMULA: P-813 Yellow, TT-P-1757A (Modified)

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS Zinc Chromate		0.05mg/m^3	BASE METAL		
CATALYST			ALLOYS		
VEHICLE Alkyd-Phenolic		N/A	METALLIC COATINGS		
SOLVENTS *See below			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS Lead in drier		0.05mg/m^3			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
4 Ethylene Glycol Monobutyl Ether		50PPM
Ethylene Glycol Monobutyl Ether Acetate		N/E
n-Butyl Alcohol		50PPM
2-Ethyl Hexanol		N/E
1,1,1-Trichloroethane		350PPM
Heptane		400PPM

RECEIVED JUL 3 1985

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H_2O=1)	Wt./Gal. 11.81lbs.
VAPOR PRESSURE (mm Hg.)		PERCENT, VOLATILE BY VOLUME (%)	59.7%
VAPOR DENSITY (AIR=1)	Heavier	EVAPORATION RATE (N-Bu-Ac = 1)	Slower
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Yellow viscous liquid with strong solvent odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 62°F TOC	FLAMMABLE LIMITS	Lel	Uel

EXTINGUISHING MEDIA
Foam, dry chemical, water spray, fog or CO_2.

SPECIAL FIRE FIGHTING PROCEDURES
Use air supplied equipment for enclosed areas. Cool exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep away from heat, sparks and flame. 1,1,1-Trichloroethane or its vapors may form corrosive fumes when in contact with flames or hot glowing surfaces.

(Continued on reverse side)

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 50PPM from solvent vapors and 0.05mg/m^3 from Zinc Chromate in the air.

EFFECTS OF OVEREXPOSURE Systemic toxic effects may also result from skin absorption. Irritation to eyes, nose and throat near or above 50 ppm from vapors. Higher concentrations cause drowsiness, dizziness, followed by coma. Dangerously high concentrations could cause death from explosion or from breathing.

EMERGENCY AND FIRST AID PROCEDURES
If inhaled remove to fresh air. If not breathing give artificial respiration preferably mouth to mouth. Call a physician. In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Wash contaminated clothing before reuse. If swallowed, CALL A PHYSICIAN IMMEDIATELY. DO NOT induce vomiting.

SECTION VI - REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		Contact with aluminum or galvanized (zinc) parts in a pressurized fluid system may cause violent reaction.
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS

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
Remove all sources of ignition (flames, electrical, static or frictional sparks, hot surfaces, etc.). Avoid breathing of vapors. Ventilate area. Contain and scoop up spills with non-sparking tools, rags, etc. Use inert absorbent materials on small spills or on residuals of large spills.

WASTE DISPOSAL METHOD

Dispose of in accordance with local applicable regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)* Organic vapor canister where oxygen content is adequate and vapor concentration is less than 2% or use air supplied face masks.

VENTILATION				
	LOCAL EXHAUST	X	SPECIAL	
	MECHANICAL *(General)*	X	OTHER	

PROTECTIVE GLOVES Neoprene Rubber Gloves

EYE PROTECTION Goggles

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep containers closed and upright to prevent leakage. Avoid flames, welding, smoking, sparks, open lights, etc. Avoid breathing of vapor or spray mist. Avoid eye and skin contact.

OTHER PRECAUTIONS
Maintain good personal hygiene. Do not use in confined areas, tank or pit without adequate ventilation.

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