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

OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

DPM 950-30

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

C.A.S. #151-50-8 | SECTION I | CP #110979

MANUFACTURER'S NAME: CP Chemicals, Inc.	EMERGENCY TELEPHONE NO.: CP: 201 - 636-4300 CHEMTREC: 800 - 429-9300
ADDRESS (Number, Street, City, State, and ZIP Code): Arbor Street, Sewaren, NJ 07077	
CHEMICAL NAME AND SYNONYMS: Potassium Cyanide	TRADE NAME AND SYNONYMS: Cyanide of Potash
CHEMICAL FAMILY: Soluble Cyanides	FORMULA: KCN CAS NO. 151-50-8

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%
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

WARNING: POISON - reacts with acids to release poisonous and flammable hydrogen cyanide gas. May react violently with oxidizers (nitrates, peroxides, etc.)

Toxic via oral & dermal routes Oral LD_{50} (rat) = 10 mg/kg

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SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Decomposes	SPECIFIC GRAVITY (H_2O=1)	1.52
VAPOR PRESSURE (mm Hg.)	Deliquescent	PERCENT, VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (_____ =1)	Decomposes
SOLUBILITY IN WATER	1:2	pH: 0.1 N aq.sol.	11.0

APPEARANCE AND ODOR: White granular powder or lumps; (toxic) almond odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): N.A.	FLAMMABLE LIMITS: N.A.	Lel	Uel
EXTINGUISHING MEDIA: Alkaline dry chemical. Do not use CO_2.			
SPECIAL FIRE FIGHTING PROCEDURES: Avoid flushing water solution to sewer or stream. Do not mix with acids or acidic water.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition or acidification releases poisonous and flammable hydrogen cyanide gas.			

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: TWA 10 ppm - hydrogen cyanide-skin

EFFECTS OF OVEREXPOSURE: Poisoning may occur by ingestion, absorption through injured skin or inhalation of hydrogen cyanide, liberated by action of carbon dioxide or other acids. Strong solutions are corrosive to skin.

EMERGENCY AND FIRST AID PROCEDURES: Call physician. Carry the patient to fresh air; have him lie down. Start treatment immediately with cyanide first aid kit (amyl nitrite inhalant). Remove contaminated clothing. Keep the patient warm.

SECTION VI - REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE	X	Exposure to air, heat
	STABLE		

INCOMPATABILITY (*Materials to avoid*): Reacts with atmospheric CO_2, other acid, to release poisonous HCN gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR	X	HCN gas may polymerize
	WILL NOT OCCUR		explosively.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wearing respirator, cover spilled solid with lime. Sweep up; store tightly closed for disposal. Decontaminate area with hypochlorite solution to oxidize residual cyanide.

WASTE DISPOSAL METHOD: React cautiously with sodium hypochlorite solution at pH 8.5-10 to oxidize cyanide. See EPA electro platers' disposal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (*Specify type*): Respirator approved for cyanides

VENTILATION		
	LOCAL EXHAUST: Keep HCN below 10ppm	SPECIAL
	MECHANICAL (*General*)	OTHER

PROTECTIVE GLOVES: Neoprene

EYE PROTECTION: Goggles, face mask

OTHER PROTECTIVE EQUIPMENT: Rubber boots, apron

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SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container tightly closed. Store away from acids, oxidizers. Keep solutions alkaline.

OTHER PRECAUTIONS: Hydrogen Cyanide: High concn. produces tachypnea (causing increased intake of cyanide); then dyspnea, paralysis, unconsciousness, convulsions and respiratory arrest. Headache, vertigo, nausea & vomiting may occur with lesser concns. Chronic exposure over long periods may cause fatigue, weakness. Exposure to 150 ppm for ½ to 1 hr. may endanger life. Death may result from a few min. exposure to 300 ppm. Average fatal dose: 50-60 mg.

Antidote: Sodium nitrite & sodium thiosulfate.

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HAZMAT PROPER SHIPPING NAME: Potassium Cyanide
" CLASS: POISON B
LABEL: POISON (required)

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