

PARKELL *Today*



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SOLUTIONS FOR THE PROBLEM-SOLVING PROFESSIONAL

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: C&B METABOND ENAMEL ETCHANT **STOCK NO:** S382
DOT HAZARD LABEL: Corrosive **UN NUMBER:** UN1805
PROPER SHIPPING NAME: Phosphoric Acid **DATE PREPARED:** 02/17/00
NFPA CODES: HEALTH - 2 FLAMMABILITY - 2 REACTIVITY - 0

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	PEL	TLV	%
Phosphoric acid	7664-38-2	1 mg/m ³	1 mg/m ³	
Polyvinyl alcohol	9002-89-5	NE	NE	
Water	7732-18-5	NE	NE	

SECTION III - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: 135° C **SPECIFIC GRAVITY (H₂O = 1):** NE
VAPOR PRESSURE: NE **PERCENT VOLATILES:** NE
VAPOR DENSITY (Air = 1): NE **EVAPORATION RATE (Butyl Acetate = 1):** NE
APPEARANCE AND ODOR: Orange-red, syrup-like liquid.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TCC): Non-flammable **FLAMMABLE LIMIT (air, % by vol.)** **UPPER:** NE **LOWER:** NE

EXTINGUISHER MEDIA: Alcohol foam, carbon dioxide or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: During emergency conditions, overexposure to thermal decomposition products may cause health hazard. Self-contained breathing apparatus should be worn.

UNUSUAL FIRE & EXPLOSION HAZARDS: Phosphoric acid does not burn; however, it can react with metal to liberate hydrogen gas that can readily form flammable or explosive mixture with air. When exposed to flame, emits toxic fumes and gases.

SECTION V - REACTIVITY DATA (PHYSICAL HAZARDS)

STABILITY: X STABLE UNSTABLE

CONDITIONS TO AVOID: Storage in metal containers, in direct sunlight, or near sources of heat.

INCOMPATIBILITY (Materials to avoid): Reacts vigorously with carbonates, alkalis and powdered metals to form phosphate salts and is corrosive (especially at temp. 85° C) to common metals. It liberates hydrogen gas when reacting with metals.

HAZARDOUS DECOMPOSITION: NE

PRODUCTS:

HAZARDOUS POLYMERIZATION: MAY OCCUR X WILL NOT OCCUR
CONDITIONS TO AVOID: NE

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: X EYES X SKIN INHALATION INGESTION

HEALTH HAZARDS (Acute & Chronic): Inhalation is not a hazard unless misted or heated at high temperature. Mist inhalation may cause coughing, sneezing, salivation and difficult breathing. Severe exposures may lead to chemical pneumonitis. As a strong mineral acid, it is corrosive and can cause irritation or severe burns on contact with any body tissue, although it may not cause immediate burning upon skin contact. Ingestion can result in severe G.I. damage. There are no reported cases of systemic effects. It does not cause phosphorus poisoning.

SIGNS & SYMPTOMS OF EXPOSURE: See above.

CARCINOGENECITY: No NTP? No IARC MONOGRAPHS? No OSHA?

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention immediately.

EYES: Immediately flush with copious amounts of water, including under eyelids, for at least 15 minutes. If irritation persists, get medical attention.

SKIN: Wash material off the skin with copious amounts of water. Get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

INGESTION: Promptly give several glasses of water or milk to drink to dilute. Then give milk of magnesia or aluminum hydroxide gel. Do not induce vomiting; if it occurs, give more fluid, especially milk. Get medical attention.

SECTION VII - SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Store in closed containers. Store away from direct sunlight, source of heat, alkalis, sulfides, cyanides, and metal powder.

OTHER PRECAUTIONS: Avoid breathing mist. Prevent contact with eyes, skin or clothing. Do not ingest.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: For small spills and residues cover with soda ash or soda ash - slaked lime mixture (1:1). Pick-up and place in polyolefine bottle for disposal. Flush spill area with water.

WASTE DISPOSAL METHODS (Consult federal, state, and local regulations): Dispose of in accordance with Federal, State, and Local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION: Respiratory protection not required for normal work procedures, but if misting occurs, use a high efficiency particulate respiratory or self-contained breathing apparatus, with full face piece needed above TLV.

VENTILATION: Provide general ventilation and local exhaust ventilation where misting can occur.

PROTECTIVE GLOVES: Use rubber gloves and apron.

EYE PROTECTION: Wear chemical safety goggles and/or face shield for mist or where splashing is possible. Do not wear contact lenses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Provide eyewash station. Have neutralizing materials readily available for emergency use. Wash contaminated clothing before reuse.

WORK/HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.