

# HB CHEMICAL COMPANY

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Date: May 18, 2009  
Replaces: Nov. 4, 2003

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## SECTION I CHEMICAL and COMPANY IDENTIFICATION

**PRODUCT:** *Merrox ♦ PPD*  
**CHEMICAL NAME:** *Isodecyl Diphenyl Phosphate*  
**COMMON/GENERIC NAME:** Alkyl Diaryl Phosphate  
**CHEMICAL FAMILY:** *Phosphate Esters*  
**DISTRIBUTOR:** HB Chemical Co. - 330-920-8023  
**EMERGENCY NUMBERS:** *CHEMTREC 800-424-9300 CANUTEC(Canada) 613-996-6666*

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## SECTION II COMPOSITION / INGREDIENT INFORMATION

	<u>PEL</u>	<u>LD50(mg/kg)</u>
<b>COMPOSITION:</b> Phosphoric Acid, isodecyl diphenyl ester: 100%	N/D	>5,000(oral)
C.A.S.# 29761-21-5	EINECS #	>2,000(dermal)

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## SECTION III/IV HAZARDS / FIRST AID PROCEDURES

**EMERGENCY OVERVIEW:** A clear, colorless, oily liquid which is mildly irritating to eyes and skin. Ingestion and prolonged contact should be avoided.

**EYE:** Flush eyes with water for 15 min. Call a physician if irritation develops.

**SKIN:** Wash skin with soap and water. If in contact with hot product, treat as a burn.

**INGESTION:** Do not induce vomiting. Never give anything by mouth to unconscious person. Seek medical attention.

**INHALATION:** Remove to fresh air; give artificial respiration or oxygen if necessary.

**TOXICITY:** No significant adverse effects expected from short-term or incidental exposure.

**CARCINOGENICITY:** Not listed by NTP, IARC or OSHA

**IN ALL CASES OF EMERGENCY, CONTACT A PHYSICIAN**

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## SECTION V FIRE AND EXPLOSION INFORMATION

**FLASH POINT** 240°C (465°F) COC

**FIRE-FIGHTING PROCEDURES:** Use Chemical foam, CO<sub>2</sub>, Dry Chemical, water fog. Treat as burning oil. Keep drums as cool as possible to avoid expansion, explosions, and splattering. This product is self-extinguishing when ignition source removed.

**HAZARDOUS COMBUSTION PRODUCTS:** This product will decompose under extreme temperatures forming corrosive oxides of phosphorous and carbon.

**PROTECTIVE EQUIPMENT:** Full eye protection and protective clothing are required for all indoor/outdoor fires and spills.

Corporate Office:  
140 E. Ascot Lane  
Cuyahoga Falls, OH 44223

Tel. 330-920-8023  
Fax 330-920-0971

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## SECTION VI SPILLS AND ENVIRONMENTAL INFORMATION

**SPILL OR LEAK PRECAUTIONS:** Wear appropriate protective equipment and gloves and clothing. Contain spill with inert absorbent or earth. Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Prevent run-off into sewers or natural waterways. Spills in excess of the RQ must be reported to the local emergency response organizations. Major spills should also be reported to the National Response Center. Spills with potential to contaminate coastal waterways must be reported to the U.S. Coast Guard (800-424-8802).

**WASTE DISPOSAL:** All containers should be effectively labeled to facilitate the appropriate disposal or reclaim.

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## SECTION VII HANDLING AND STORAGE

Store in sealed containers in dry, ambient temperature conditions. Perform drum and tote filling in well-ventilated area wearing protective eye shields and clothing. Max. storage temp. 65C(149F).

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## SECTION VIII EXPOSURE CONTROLS AND PERSONAL PROTECTION

**VENTILATION:** Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels.

**RESPIRATORY AND PERSONAL PROTECTION:** Respirators should be selected when TWA exceeded. Avoid hot vapors when mixing or packaging. Safety glasses with side shields; gloves, boots and apron as appropriate.

**FACILITIES:** There should be a shower facility and eyewash in the building where this product is being stored and handled. Exercise good chemical handling practice.

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## SECTION IX PHYSICAL AND CHEMICAL INFORMATION

Appearance: Clear, colorless liquid  
Specific Gravity @25°C = 1.08  
Vapor Pressure @ 25°C: 1.4 mm Hg

Evaporation Rate: < 1 (butyl acetate=1)  
Boiling Point: 118°C (244°F) decomposes  
Refractive Index 25°C: 1.5060

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## SECTION X STABILITY AND REACTIVITY

Under normal storage conditions, this product a) is stable; b) will not polymerize or exotherm; c) should be kept away from extreme heat, strong oxidizers and bases; d) this product decomposes under high temperature and hydrolyses in wet low and high pH conditions.

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## SECTION XI TOXICOLOGICAL INFORMATION

Dermal LD <sub>50</sub> :	>2,000 mg/kg ó rabbit
Oral LD <sub>50</sub> :	>5,000 mg/kg ó rat
Inhalation:	Chronic exposure may result in cholinesterase inhibition and/or nerve damage.
Acute eye/skin effects:	May cause significant irritation. Also may cause gastrointestinal tract irritation.
Mutagenicity:	Not known

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## SECTION XII ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** May cause adverse impact if material reaches waterways. One of the components, triphenyl phosphate, is mildly to highly toxic to a variety of marine life.

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## SECTION XIII DISPOSAL CONSIDERATIONS

Empty containers can be rinsed with a suitable solvent/surfactant/soap and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations. For spill clean-up procedures see Sect. VI.

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## SECTION XIV TRANSPORTATION INFORMATION

**U.S. DOT:** Not restricted(55 gal.drums). Over 450 gals. container requires Class 9 and subsidiary risk label-Marine Pollutant.

**CANADA TRANSPORT HAZ.GOODS:** Not determined.

**AIR (IATA/ICAO):** Not known. Use commercial label showing chemical name.

**EUROPEAN TRANSPORTATION: ADR/RID HAZ. CLASS.:** Not determined.

**US CUSTOMS:** - HARMONIZED TARIFF CODE: 2919.00.50.10

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## SECTION XV REGULATORY INFORMATION

**SARA TITLE III:** - 311/312 CATEGORIES: Not listed.

“ “ - 313 Reportable ingredients: None

**CERCLA RQ:** Not applicable.

**TSCA REGULATORY:** All intentional ingredients are listed in the TSCA Inventory.

**CANADA WHMIS HAZARD SYMBOL AND CLASS:** Class D, Division 2, Subdivision B(D-2B): Toxic material. This product is WHMIS controlled.

**CANADA INGREDIENT DISCLOSURE LIST:** IDL status not determined. All intentional ingredients are on the DSL.

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## SECTION XVI OTHER INFORMATION

HMIS Label: Fire: 1  
Health: 1  
Reactivity: 0  
Protection: C

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Prepared: May 18, 2009 (PCR)

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other or additional considerations.

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