



Safety Data Sheet (SDS)

Revision / Review Date: 1/19/15

1. Chemical Product and Company Identification

Product Name:	Merrox PPD
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
SDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Isodecyl Diphenyl Phosphate/ Phosphate Esters
Common name:	Alkyl Diaryl Phosphate
Molecular Formula:	C22-H31-O4-P
Molecular Weight via GPC, Mn:	390.50
Product Use:	Plasticizer
OSHA Status	Non hazardous
CAS No:	29761-21-5

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

<u>Warning:</u>	Not available.
<u>Signs and Symptoms of Exposure:</u>	Not available.
<u>Primary Routes of Entry:</u>	Not available.
<u>Medical Conditions Generally Aggravated by Exposure:</u>	Not available.
<u>Eye Contact:</u>	May cause mild eye irritation.
<u>Skin Contact:</u>	May cause mild skin irritation.
<u>Ingestion:</u>	May cause digestive irritation.
<u>Inhalation:</u>	May cause respiratory irritation.
<u>HMIS Hazard Ratings:</u>	Health-1, Flammability -1, Reactivity -0, Protection-C
<u>HMIS limitation statement:</u>	The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material.

3. Composition / Information on Ingredients

Weight Percent / Typical	Component Identity	CAS Registry Number
100%	Phosphoric Acid, isodecyl diphenyl ester	29761-21-5

4. First Aid Measures

<u>Inhalation:</u>	If symptoms develop, move victim away from exposure and into fresh air. Administer oxygen if breathing is difficult.
<u>Eyes:</u>	Flush eyes with water for 15 minutes. Call a physician if irritation develops.
<u>Skin:</u>	Remove contaminated clothing and launder it before reuse. Wash exposed area with soap and water. Use emollient skin creams. If irritation persists, consult a physician.
<u>Ingestion:</u>	Do not induce vomiting. Seek medical attention. If individual is drowsy, do not give anything by mouth.

5. Fire-Fighting Measures

<u>Suitable Extinguishing Media:</u>	Water Spray, Dry Chemical, Carbon Dioxide CO ₂ , Foam
<u>Special Fire Fighting Procedures:</u>	Full eye protection and protective clothing are required for all indoor/outdoor fires and spills.
<u>Hazardous Combustion Products:</u>	This product will decompose under extreme temperatures forming corrosive oxides of phosphorous and carbon.
<u>Unusual fire and explosion hazards:</u>	Not known.

6. Accidental Release Measures

<u>Steps to be taken in case material is spilled:</u>	Wear appropriate personal protective equipment.
<u>Environmental Disposal Information:</u>	Product must not enter waterways.
<u>Waste Disposal:</u>	Reclaim or dispose of in accordance with local, state, and federal regulations.

7. Handling and Storage

<u>Empty Containers:</u>	Containers of this material may be hazardous when emptied due to product residues. All hazard precautions must be observed. Empty containers can be rinsed with a suitable
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solvent/surfactant/soap and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations.

Precautions to be taken in handling:

Perform drum and tote filling in well-ventilated area wearing protective eye shields and clothing.

Storage:

Store in a cool, dry, ventilated area. Keep containers closed when not in use. Do not store near extreme heat, open flame, or sources of ignition. Max. storage temp. 65C(149F)

8. Exposure Controls / Personal Protection

Exposure Controls:

Not available.

Respiratory Protection:

Respirators should be selected when TWA exceeded. Avoid hot vapors when mixing or packaging.

Ventilation:

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

Hand protection:

Wear gloves.

Eye Protection:

Wear safety glasses with side shields.

Skin and Body Protection:

Wear impervious clothing, apron and boots appropriate.

Other Precautions:

Wash with soap and water before eating, drinking or using toilet facilities. Clean contaminated clothing before reuse.

Decontamination 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.

9. Physical and Chemical Properties

Physical Form:

Liquid

Appearance & Odor:

Clear colorless

Specific Gravity:

@25°C = 1.08

Softening Point, R&B:

Not available.

Solubility in Water:

Not available.

Refractive Index:

25°C: 1.5060

Flash Point, TAG CC F:

240°C (465°F) COC

Percent Volatiles (by weight):

Not available.

Evaporation Rate (Water ~ 1):

< 1 (butyl acetate=1)

<u>Vapor Pressure (mm Hg):</u>	@ 25°C: 1.4 mm Hg
<u>Vapor Density (Air ~ 1):</u>	Not available.
<u>Boiling Point (°F) Initial:</u>	118°C (244°F) decomposes
<u>Auto ignition Temperature, °C:</u>	Not available.
<u>Flammable Limits, %(V):</u>	Not available.

10. Stability and Reactivity

<u>Stability:</u>	This product is stable under normal conditions.
<u>Incompatibility (Materials to Avoid):</u>	Material reacts with strong oxidizing agents
<u>Conditions to Avoid:</u>	Avoid extreme heat.
<u>Hazardous Polymerization:</u>	Will not occur under normal conditions.
<u>Hazardous Decomposition:</u>	This product decomposes under high temperature and hydrolyses in wet low and high pH conditions.

11. Toxicological Information

This material is not listed as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.

<u>Dermal:</u>	LD50: >2,000 mg/kg – Rabbit
<u>Oral:</u>	LD50: >5,000 mg/kg – Rat
<u>Inhalation:</u>	Chronic exposure may result in cholinesterase inhibition and/or nerve damage.
<u>Acute eye/skin effects:</u>	May cause significant irritation. Also may cause gastrointestinal tract irritation.
<u>Mutagenicity:</u>	Not known.

12. Ecological Information

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.

13. Disposal Considerations

Reclaim or Dispose of material in accordance with all applicable local, state, and federal regulations. 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.

14. Transport Information

<u>D.O.T. Shipping Name:</u>	Not restricted.
<u>Air - ICAO (international Civil Aviation Organization):</u>	Not restricted.
<u>Sea - IMDG (International Maritime Dangerous Goods):</u>	Not restricted.
<u>US Customs Harmonized Tariff Code:</u>	2919.00.50.10

15. Regulatory Information

All components of this material are on the TSCA Inventory.

All components of this material are on the Canadian DSL.

SARA 311/312 Categories: Not listed.

SARA 313 Reportable ingredients: None.

Canada WHMIS Hazard Symbol and Class: Class D, Division 2, Subdivision B(D-2B): Toxic material. This product is WHMIS controlled.

New Jersey RTK Label Information: Isodecyl diphenyl ,CAS No. 29761-21-5

Pennsylvania RTK Label Information: Isodecyl diphenyl, CAS No. 29761-21-5

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.