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Submitting Organization	BORG-WARNER CHEMICALS INC		
Contractor			
Document Title	INITIAL SUBMISSION: MATERIAL SAFETY DATA SHEET ON WESTON PDDP (PHENYL DIISODECYL PHOSPHITE) WITH COVER LETTER DATED 04/02/84		
Chemical Category	WESTON PDDP (PHENYL DIISODECYL PHOSPHITE)		

Borg-Warner Chemicals, Inc.

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Executive Offices



INIT 07/26/94



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Contains No CBI

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Dear Customer:

Borg-Warner Chemicals, Inc., markets a variety of plastic pellet and powder materials under such trade names as CYCOLAC, CYCOLOY, CYCOVIN, BLENDX, MARBON, PREVEX and FyRID.

Specialty Chemical products are identified with the trade names WESTON, MARBON, MALDENE, PEGAFAC, PEGOL, PEGANATE, PEGESTE, PEGAMEEN, ULTRANOX AND SPINUVEX.

Limited, non-standard plastics or chemical materials may also carry identifying numbers only, without a trade name. Generic chemicals, such as Styrene Monomer, may simply be referred to by their common chemical name.

The enclosed Material Safety Data Sheet(s) are pertinent to the product(s) of your interest.

THE INFORMATION COVERS KNOWN HAZARDS INVOLVED IN THE NORMAL HANDLING OF THESE BORG-WARNER CHEMICALS' PRODUCTS, AND SHOULD BE DISSEMINATED TO ALL OF YOUR EMPLOYEES WHO MAY HAVE REASON TO USE OR COME IN CONTACT WITH THEM.

Many of the terms used in these brochures provide an indication of the degree of hazard involved but may not be understood by the average layman. For this reason, your safety program and job instructions should cover all precautions pertinent to their proper use. It is impossible to cover every possible reaction or hazardous condition which may occur, therefore, THE PROCESSING OF THESE MATERIALS SHOULD BE UNDER THE SUPERVISION OF QUALIFIED INDIVIDUALS WHO ARE FAMILIAR WITH THEIR PROPERTIES.

Please contact us in the event of any emergency or situation related to the use of our products.

Very truly yours,

C. R. Holt
Product Manager
Management Services

jb

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RECEIVED
APPL. DIV.

CA-211
WESTON PDDP

Weston PDDP™
Phenyl Dilsodecyl Phosphite
Formula: (C₁₂H₂₅O)₂POC₆H₅
Formula Weight: 438

Specifications

Appearance	Clear liquid
Color (APHA)	50 max
Acid No. (mg KOH/g)	0.05 max
Specific Gravity 25° /15.5° C	0.938-0.947
Refractive Index at 25° C	1.4780-1.4810

General Data

Phosphorus Content	7.1%
Weight	7.8 lb/gal (934.7 g/l)
Flash Point (COC)	430° F (221° C)
Fire Point (COC)	470° F (243° C)
LD ₅₀	9.4 g/kg (oral, rats)
Solubility	Soluble in most common aprotic organic solvents; insoluble in water.

Handling

Handling precautions consistent with acceptable manufacturing practices should be followed.

The product should be handled by workers equipped with rubber gloves and safety glasses in adequately ventilated areas.

Workers should avoid contact with the skin and exposure to its vapors. Contact with skin may cause skin irritation. For skin exposure immediately wash with soap and water. For eye exposure flush thoroughly with water and consult physician.

U.S. PATENTS 3,047,606; 3,205,269

The results given are based on tests which we believe to be reliable. Due to variance of materials, conditions and methods of processing, we cannot guarantee results to be obtained. Nothing contained in this report is intended as a recommendation to use our products so as to infringe on any patents.

™ Weston PDDP is a trademark of Borg-Warner Corporation.

BORG **WARNER**
Chemicals

Tech Data Sheet

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Modifier Resins—Polymer Additives—Alkylphenols—Plating Chemicals—Intermediate Chemicals

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Printed in U S A

BORG WARNER
Chemicals

WESTON

MANUFACTURER'S NAME Borg-Warner Chemicals, Inc. **EMERGENCY (304) 296-2554**
TELEPHONE NO. If no ans. (304) 863-7480

ADDRESS (Number, Street, City, and ZIP Code)
 International Center, Parkersburg, WV 26101

CHEMICAL FAMILY
 Organophosphites

TRADE NAME & SYNONYMS	CHEMICAL NAME	FORMULA
WESTON DPDP	Diphenyl Isodecyl Phosphite	(C ₆ H ₅ O) ₂ POC ₁₀ H ₂₁
WESTON PDDP	Phenyl Diisodecyl Phosphite	C ₆ H ₅ OP(OC ₁₀ H ₂₁) ₂
WESTON ODPP	Diphenyl Isooctyl Phosphite	(C ₆ H ₅ O) ₂ POC ₈ H ₁₇
WESTON EHDPP	Ethylhexyl Diphenyl Phosphite	(C ₆ H ₅ O) ₂ POC ₈ H ₁₇
WESTON DPP	Diphenyl Phosphite	(C ₆ H ₅ O) ₂ POH

	PRODUCT	APPROXIMATE TRIPHENYL PHOSPHITE CONTENT
These materials contain other reaction products which are inherent in the process of manufacture, including Triphenyl Phosphite (TPP). Approximate levels of TPP content in each product are:	WESTON DPDP	20% by weight
	WESTON PDDP	5% by weight
	WESTON ODPP	20% by weight
	WESTON EHDPP	20% by weight
	WESTON DPP	5% by weight

PRODUCT	BOILING POINT	VAPOR PRESSURE	SPECIFIC GRAVITY (N ₂ O=1) 25°C/15.5°C	VAPOR DENSITY (AIR=1)	FLASH POINT PENSKY-MARTENS CLOSED CUP
WESTON DPDP	374°F(190°C)@5mm Hg		1.025	12.9	310°F(154°C)
WESTON PDDP	374°F(190°C)@5mm Hg		0.940	15.2	320°F(160°C)
WESTON ODPP	374°F(190°C)@5mm Hg		1.045	12.0	360°F(182°C)
WESTON EHDPP	365°F(185°C)@6mm Hg		1.040	12.0	360°F(182°C)
WESTON DPP	284°F(140°C)@5mm Hg		1.210	8.1	290°F(143°C)

SOLUBILITY IN WATER	Insoluble	Data relevant to all five products
EVAPORATION RATE (Butyl acetate=1)	Less than 1	
VOLATILE	Less than 1% by weight	
APPEARANCE & ODOR	colorless to straw colored liquid with a mild odor	

FLASH POINT	See Section III	FLAMMABLE (EXPLOSIVE) LIMITS	UPPER	Not established
METHOD USED	Pensky-Martens Closed Cup		LOWER	Not established

EXTINGUISHING MEDIA Foam, water fog

SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS Possible generation of phosphorus acids and phenol in liquid or mist form.

THRESHOLD LIMIT VALUE	PRODUCT	LD ₅₀ VALUE
Not established	WESTON DPDP	10.24 gm/kg (oral, rats)
	WESTON PDDP	9.40 gm/kg (oral, rats)
EFFECTS OF OVEREXPOSURE	WESTON ODPP	5.47 gm/kg (oral, rats)
	WESTON EHDPP	Not established
	WESTON DPP	0.60 gm/kg (oral, rats)
	May cause skin irritation and/or dermatitis. Animal tests indicate neurotoxicity with Triphenyl Phosphite.	

**EMERGENCY AND
FIRST AID PROCEDURES****CAUTION – MAY CAUSE BURNS**

- Avoid skin and eye contact.
- Use with adequate ventilation.

- FIRST AID**
- Skin exposure, immediately wash with soap and water.
 - Eye contact, flush thoroughly with water and consult a physician.
 - Remove contaminated clothing – wash before reuse
 - Remove and discard shoes.

STABILITY	UNSTABLE		CONDITIONS TO AVOID Heating above flash point.
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)

Mixing with other chemicals should be done only under the supervision of qualified individuals. Incompatible with acids, oxidizing agents and water.

HAZARDOUS DECOMPOSITION PRODUCTS

Phenol and Phosphorous Acid

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

**STEPS TO BE TAKEN IN
CASE MATERIAL IS
RELEASED OR SPILLED**

Absorb on diatomaceous earth or other inert filler. Shovel into drums. Remaining material may be emulsified with soap and water and absorbed on additional filler.

**WASTE DISPOSAL
METHOD**

For emergency leak or spill, land fill or incinerate as codes and equipment permit. Because of varying circumstances, routine waste disposal should be approved by local environmental agencies.

VENTILATION REQUIREMENTS LOCAL EXHAUST	Sufficient to control vapors and odor.	PROTECTIVE EQUIPMENT (Specify Types)	EYE Chemical goggles.
MECHANICAL (General)	As needed.	GLOVES	Impervious such as rubber.
SPECIAL	None.	RESPIRATOR	Organic vapor type if necessary
OTHER PROTECTIVE EQUIPMENT	None.		

**PRECAUTIONS TO BE
TAKEN IN HANDLING
AND STORAGE**

Do not store above 150°F (66°C) in order to minimize possible changes in the material.

OTHER PRECAUTIONS

Wash hands with soap and water before eating or smoking.

DOT LABELING REQUIRED

WESTON DPDP	None
WESTON PDDP	
WESTON ODPP	
WESTON EHDPP	
WESTON DPP	Corrosive

The typical results reported are believed to be based on reliable procedures. Due to variable conditions or methods of processing, NO GUARANTEES OR WARRANTIES ARE EXPRESSED OR IMPLIED INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, nor are any recommendations made to infringe on patents.

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Alkylphenols – Surfactants – UV Stabilizer

