



HARWICK STANDARD  
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ISO 9001-2000  
REGISTERED

**POLYCIZER® DBS**  
**DIBUTYL SEBACATE**

Polycizer DBS is an efficient, low temperature plasticizer for vinyl resins, SBR, neoprene, butyl, and nitrile polymers. Polycizer DBS, being non-toxic, is especially useful as a plasticizer for mechanical molded goods and packaging film for the food industry.

Polycizer DBS is compatible with polyvinyl chloride, polyvinyl acetate, vinyl chloride acetate copolymers, cellulose acetate butyrate, cellulose nitrate, various synthetic polymers and ethyl cellulose.

**TYPICAL PROPERTIES**

Appearance	Colorless, Oily Liquid
Specific Gravity, 20°C/20°C	0.937
Acid Number mg KOH/g	0.06
Refractive Index @ 25°C	1.4401
Moisture, %	0.04
Flash Point, °F	380
Color, APHA	5
Purity, %	99.5

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# Harwick Standard Distribution Corporation

## Plasticizers

Harwick Standard offers a broad line of plasticizers to meet the needs of both rubber compounders and flexible PVC formulators. By offering a large range of products, we provide our customers the versatility of identifying a plasticizer family that is effective with various polymers, and gives several product options from which to choose for optimum performance characteristics - from general use to most demanding requirements.

Harwick Standard's experienced technical and sales staff can assist in selecting the best plasticizer to meet your requirements. Please contact us for assistance with your compounding needs.

### Non-Phthalate C-9

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Polycizer® DHIN	1-2 cyclohexane dicarboxylic acid diisononyl ester	R-1,2/P-1	✓						Performance similar to DOP in NBR compounds

### Adipates

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Polycizer® DOA	Di-2 ethylhexyl adipate	R-1,2/P-1,2	✓	✓					FDA, low water extraction, UV stability
Merrol® 4206 (DBEA)	Dibutoxyethyl adipate	R-1,2,3/P-2		✓					
Polycizer DBEEA Merrol 4226	Dibutoxyethoxyethyl adipate	R-1,2,3		✓	✓	✓	✓		

### Azelates

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Merrol DOZ-E	Di-2 ethylhexyl azelate	R-1,2/P-1,2	✓	✓	✓				Excellent low temp

#### Polymer Usage Key

R-1	NBR, NBR/PVC
R-2	CR, CPE, CSM
R-3	ECO, Fluoroelastomers, Polyacrylates

#### Polymer Usage Key

P-1	PVC
P-2	PVAC, PS, ABS, Cellulosics
P-3	Eng, Resins, Polyester, Alloys

## Benzoates

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Benzoflex® 9-88	Dipropylene glycol dibenzoate	R-1/P-1,2			✓			✓	Polyurethanes
Benzoflex 50	Diethylene/ dipropylene glycol dibenzoate	R-1/P-1,2			✓			✓	Water-based adhesives
Benzoflex 2088	Diethylene glycol dibenzoate, triethylene glycol dibenzoate, dipropylene glycol dibenzoate	R-1/P-1,2			✓	✓		✓	High solvator, low VOC's, FDA

## Chlorinated Paraffins

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Flame Resistance	High Solvating	Miscellaneous
Chloro Flo/ Paroil Series	Liquid chlorinated paraffins	R-2/P-1	✓		✓		✓		

## Mono-Esters

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Polycizer Butyl Oleate	N-butyl oleate	R-2/P-2		✓					Primary light color plasticizer for polychloroprene
Polycizer MO	Vegetable Oil	R-2		✓	✓		✓	✓	Low & high temp for polychloroprene
Plasticizer OLN	Oleyl nitrile	R-1				✓		✓	Low & high temp for polychloroprene
Natoflex® IOT	Isooctyl tallate	R-1,2	✓	✓					
Merrol 818T	Alkyl tallate	R-1/P-2	✓	✓					

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## Petroleum Process Oils

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Stan-Lube Series	Paraffinic oils	Non-polar	✓						Light color, good for EPRs
Stan-Plas Series	Naphthenic oils	R-1	✓						General Processability
Duoprime® Series	White oils	Non-polar	✓						FDA

## Phosphate Esters

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Flame Resistance	High Solvating	Miscellaneous
Lindol®	Tricresyl phosphate	P-1,2	✓		✓		✓	✓	
Phosflex® 41L Merrol 521	Isopropylated triaryl phosphate	R-1,2/P-1					✓		
Phosflex T-BEP	Tributoxyethyl phosphate	R-1,2,3/P-1,2		✓			✓	✓	
Phosflex 71-B	Butylated triphenyl phosphate	R-1,2/P-1					✓		
Phosflex 362	2-ethyhexyl diphenyl phosphate	R-1,2/P-1,2					✓		
Phosflex 390	Isodecyl diphenyl phosphate	R-1,2/P-1,2					✓		

### Disclaimer of Liability

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## Phthalates

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Merrol DAP	Diallyl phthalate	R-1,2/P-3						✓	Co-curing
Polycizer DBP Merrol DBP	Di-n-butyl phthalate	R-1,2/P-1,2	✓					✓	Good emollient for cosmetics
Polycizer DIDP	Diisodecyl phthalate	R-1,2/P-1,2			✓	✓			Also E grade
Polycizer DINP Merrol DINP	Disisononyl phthalate	R-1,2/P-1,2			✓				
Polycizer DOP Merrol DOP	Di-2-ethylhexyl phthalate	R-1,2/P-1,2	✓						
Polycizer DUP	Diundecyl phthalate	R-1,2/P-1,2		✓	✓		✓		Low fogging Also CA grade

## Polymeric

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Permeability	Migration Resistance	Low Extraction	Heat Aging	Miscellaneous
Admex® P-27	Polyester adipate	R-1/P-1,2				✓			High purity, good electrical properties
Admex 409	Polyester adipate	R-1/P-1,2	✓			✓		✓	Good electrical properties
Admex 412	Polyester adipate	R-1/P-1		✓	✓				Low viscosity, easy processing
Amdex 429	Polyester adipate	R-1,2/P-1,2				✓			Non-fogging, humidity resistance
Admex 523	Mixed polyester	R-1/P-1,2	✓			✓	✓		Low viscosity
Admex 760	Polyester adipate	R-1,2/P-1,2			✓	✓			Excellent permanence, low water extractability
Admex 761	Polyester adipate	R-1/P-1,2					✓		
Admex 770	Mixed polyester	R-1,2/P-1,2			✓	✓			Excellent weatherability (decals)
Admex 775	Mixed polyester	R-1/P-1,2							Excellent resistance to aqueous & organic solvents
Admex 910-001	Mixed polyester	R-1/P-1,2					✓		Low water extraction
Admex 1723	Mixed polyester	R-1/P-1,2			✓				Printability
Admex 2632	Mixed polyester	R-1/P-1,2	✓						FDA



## Polymeric (continued)

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Permeability	Migration Resistance	Low Extraction	Heat Aging	Miscellaneous
Admex 6187	Polyester adipate	R-1/P-1,2				✓	✓		Solvent & oil resistance
Admex 6985	Polyester adipate	R-1/P-1,2				✓	✓	✓	Very low volatility
Admex 6994	Mixed polyester	R-1/P-1,2				✓			Mar resistance, low fogging
Admex 6995	Polyester adipate	R-1/P-1,2			✓				UV weatherability
Admex 6996	Polyester adipate	R-1/P-1,2		✓					Printability
Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Merrol P-6320	Polyester adipate	R-1,2/P-1		✓		✓			Solvent & oil resistance, low temp flexibility
Merrol P-6412	Polyester adipate	R-1,2/P-1,2				✓			Medium viscosity, FDA
Merrol P-6410	Polyester adipate	P-1,2			✓	✓			
Merrol P-6420	Polyester adipate	P-1				✓			Good color

## Sebacates

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/ Flexibility	Low Volatility	Low Extraction	Heat Aging Resistance	High Solvating	Miscellaneous
Polycizer DBS	Di-n-butyl sebacate	R-1,2/P-1,2		✓				✓	FDA
Polycizer DOS Merrol DOS	Di-2-ethylhexyl sebacate	R-2/P-1,2	✓	✓		✓			Low temp greases & caulks

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330-798-9300

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## Specialty

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/Flexibility	Permeability	Migration Resistance	Low Extraction	Heat Aging	Miscellaneous
Plasticizer SC-B	Triethyleneglycol dicaprate/caprylate	R-1,2,3		✓				✓	FDA
Plasticizer SC-E	Triethyleneglycol di 2-ethylhexanoate	R-1,2,3		✓					Flexibility over a wide temp range
Hercoflex® 600	Pentaerythritol ester of fatty acids	R-1,2		✓	✓	✓	✓	✓	Excellent low and high temp
Hercoflex 707, 707A	Pentaerythritol ester of fatty acids	R-1,2		✓	✓	✓	✓	✓	Excellent low and high temp
Polycizer ESO Merrol E-68	Epoxidized soybean oil	R-1/P-1,2,3			✓	✓		✓	Good heat stabilizer

## Trimellitates

Tradename(s)	Chemical Name	Polymer Usage	General Purpose	Low Temperature/Flexibility	Permeability	Migration Resistance	Low Extraction	Heat Aging	Miscellaneous
Polycizer TOTM	Tri-2-ethylhexyl trimellitate	R-1,2/P-1,2			✓		✓	✓	Also E&CA grades, excellent water resistance
Merrol 810TM-E	Tri(n-octyl/n-decyl) trimellitate	R-2		✓	✓		✓	✓	Oxidation resistance, excellent water resistance
Polycizer TINTM	Trisononyltrimellitate	R-1,2/P-1,2			✓	✓	✓	✓	



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