

PowerSorb™ 328

New Materials Creating New Performances

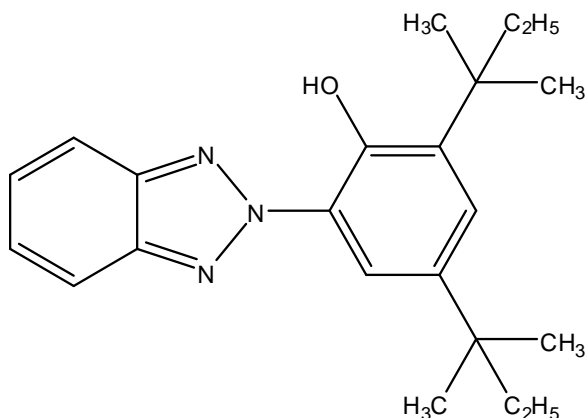
**Quality Products.
Dependable Service.**

CHEMICAL NAME

2-(2'-Hydroxy-3',5'-di-t-amyphenyl)benzotriazole

Synonym: 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol

CHEMICAL STRUCTURE



INTRODUCTION

PowerSorb™ 328 is a strong absorber of ultraviolet radiation and has a high degree of photostability - photochemical energy absorbed in the ultraviolet region is dissipated as thermal energy.

PHYSICAL PROPERTIES

CAS No.	25973-55-1
EC No.	247-384-8
Formula	C ₂₂ H ₂₉ N ₃ O
Molecular Weight	352
Specific Gravity _[20°C]	1.17
Melting Point(°C)	79-83

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Boiling Point(°C)	477.8
Flash Point(°C)	229
Vapour Pressure _[25°C, Pa]	4.3E-9
Volatile Loss(%)	Max.0.5
Color of Solution 460nm (%)	Min.97
Color of Solution 500nm (%)	Min.98
Appearance	Pale Yellow Powder
Ash (%)	0.1 max
Min. Purity	99%
Solubility (20°C)	% w/w
Acetone	6
Benzene	39
Butyl Carbitol	3.5
Butanol	2.5
Butyl acetate	15
Chloroform	44
Cyclohexane	56
Dichloromethane	56
Ethanol	0.6
Ethyl acetate	20
Ethylglycol	4
n-Hexane	16
MEK	14
Methanol	0.4
Methyl ethyl ketone	24
Mineral spirits	14
Styrene	34
Water	<0.01
Xylene	34

APPLICATIONS

PowerSorb™ 328 features strong UV absorption, low initial color, good solubility in plasticizers and monomers, moderately low volatility, and excellent compatibility in a wide

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variety of substrates.

PowerSorb™ 328 can be used in combination with phenolic & phosphite antioxidants, and HALS to optimize performance in outdoor use.

PowerSorb™ 328 is suitable for use in polyolefins, PVC, styrene homo and copolymers, ABS, acrylic polymers, unsaturated polyesters, thermoplastic urethanes, moisture cured polyurethanes, polyacetals, polyvinylbutyral, two component epoxies and urethanes, oil alkyds and thermosetting acrylic enamels.

HANDLING AND STORAGE

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

PACKING

PowerSorb™ 328 is supplied in 25kg carton box or 40kg fiber drum.

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