

# PowerSorb™ 327

*New Materials Creating New Performances*

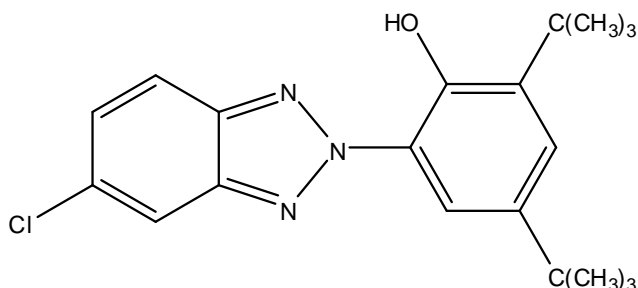
**Quality Products.  
Dependable Service.**

## CHEMICAL NAME

2-(2'-Hydroxy-3',5'-di-t-butylphenyl)-5-chlorobenzotriazole

Synonym: 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol

## CHEMICAL STRUCTURE



## INTRODUCTION

PowerSorb™ 327 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.	3864-99-1
EINECS No.	223-383-8
Formula	C <sub>20</sub> H <sub>24</sub> N <sub>3</sub> OCl
Molecular Weight	358
Specific Gravity [25°C, g/cm <sup>3</sup> ]	1.26
Vapor Pressure [20°C, Pa]	8.2E-9
Melting Point(°C)	154-158
Flash Point(°C)	454
Volatile Loss(%)	Max.0.5

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Color of solution 460nm(%)	Min.95
Color of solution 500nm(%)	Min.97
Appearance	Pale Yellow Powder
Ash(%)	Max.0.1
Min. Purity	99%

Solubility (22°C)	% w/w
Xylene	15
n-Butyl acetate	7
Ethanol	0.3
Ethyl acetate	6
n-Hexane	3
Styrene	14
Methyl methacrylate	14
Dioctyl phthalate	3
Methyl ethyl ketone	4
Toluene	16
Mineral spirits	5
Water	<0.01

## APPLICATIONS

PowerSorb™ 327 is particularly suitable for polypropylene and polyethylene as well as cold cured polyesters, polyurethanes, dyes, and pigments.

PowerSorb™ 327 can be used in combination with phenolic & phosphite antioxidants, and HALS to optimize performance in outdoor use.

PowerSorb™ 327 exhibits good initial color, low volatility, excellent stability to heat and light, superior wash fastness, and resistance to gas fading.

PowerSorb™ 327 almost does not absorb visible light, particularly applicable to colorless and light-colored products.

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## 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™ 327 is supplied in 25Kg carton box or 50kg fiber drum.

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