

PowerSorb™ 327 UV Absorber

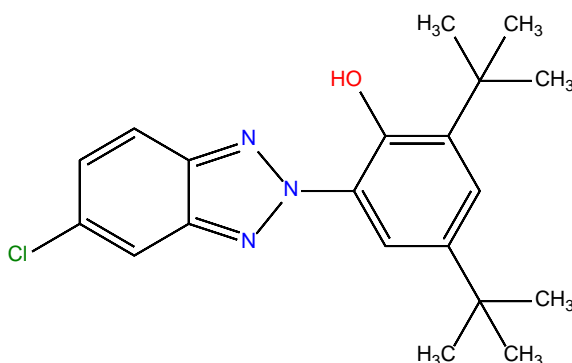
Introduction PowerSorb™ 327 is a strong absorber of ultraviolet radiation and has a high degree of photostability - photochemical energy absorbed in the ultraviolet region is dissipated as thermal energy.

Chemical Name 2-(2'-Hydroxy-3',5'-di-t-butylphenyl)-5-chlorobenzotriazole;
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol

CAS Number 3864-99-1

EINECS Number 223-383-8

Chemical Structure



Chemical Formula C₂₀H₂₄N₃OCl

Molecular Weight 358

Physical Properties

Appearance	Pale yellow powder
Specific Gravity (25°C, g/cm ³)	1.26
Vapor Pressure (20°C, Pa)	8.2E-9
Melting Point (°C)	154-158
Flash Point (°C)	454
Volatile Loss (%)	Max.0.5
Color of solution (460nm, %)	Min.95
Color of solution (500nm, %)	Min.97
Ash (%)	Max.0.1
Purity (%)	Min.99

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Solubility

Solubility [20°C]	% w/w
Xylene	15
n-Butyl acetate	7
Ethanol	0.3
Ethyl acetate	6
n-Hexane	3
Styrene	14
Methyl methacrylate	14
Diethyl phthalate	3
Methyl ethyl ketone	4
Toluene	16
Mineral spirits	5
Water	<0.01

Benefits & 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.

Handling & 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.



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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.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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We disclaim liability for any incidental or consequential damages.