



Gromax Enterprises Corp.

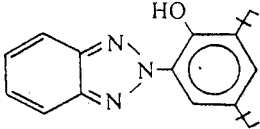
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RICHVIN 328

Ultraviolet light absorber for plastics, coating and adhesives

General	<p>RICHVIN 328 belongs to the family of substituted benzotriazoles which protect against ultraviolet radiation. RICHVIN 328 has high solubility which makes it particularly useful for stabilizing castings, polyolefin, styrene and urethanes. Compared to other RICH series UV absorbers, 328 is more solvent soluble, has better resin compatibility and wash fastness, is less volatile, and provides a degree of stabilization that is generally equal to or better than other members of the family.</p>	
Properties	<div style="text-align: center;">  <p>Molecular weight : 351.5</p> </div> <p>Structure:</p> <p>CAS Name</p> <p>CAS No.</p> <p>Molecular Formula</p> <p>Molecular Weight</p>	<p>2-(3',5' di-t-amyl-2'-hydroxy phenyl) benzotriazole</p> <p>25973-55-1</p> <p>C₂₂H₂₉N₃O</p> <p>351.5</p>
Physical Data	<p>Appearance</p> <p>Odor</p> <p>Boiling point</p> <p>Melting point</p> <p>Specific gravity</p>	<p>Off-white crystalline powder</p> <p>Faint</p> <p>>300°C</p> <p>80°C</p> <p>1.17@20°C</p>
Solubility	<p>(g/ in 100ml solvent)</p> <p>Ethyl acetate</p> <p>Ethanol</p> <p>Methyl ethyl ketone</p> <p>Mineral spirits</p> <p>Styrene</p> <p>Water</p>	<p>0. 20</p> <p>0. 6</p> <p>24</p> <p>14</p> <p>34</p> <p>Nil</p>
Specification	<p>Appearance</p> <p>Assay</p> <p>Melting point</p> <p>Volatiles</p> <p>Clarity in toluene</p> <p>Transmittance</p>	<p>Pale yellow crystalline powder</p> <p>99% min</p> <p>79-84°C</p> <p>0.5% max</p> <p>Clear solution (10g/100ml)</p> <p>97% min @ 460nm</p> <p>97% min @ 500nm</p> <p>99% min @ 590nm</p>



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Application	<p>RICHVIN 328 is most suitable for protective coatings due to its non-yellowing property during the baking stage. Therefore, RICHVIN 328 has been widely used in the following areas:</p> <ol style="list-style-type: none">1. Thermoplastic urethane and related polyurethane.2. Two-component epoxy.3. Thermosetting acrylic enamel.4. Photographic coating. <p>A percentage of 0.1%-0.5% of RICHVIN 328 is recommended for protection. Light stability of polymer can be further enhanced by use of a phenolic antioxidant (e.g. RICHNOX 1010 and RICHNOX 1076) and a hindered amine light stabilizer (e.g. RICHVIN 770 and 944) in combination with RICHVIN 328.</p>
Storage	Must be stored in closed containers in dark, dry conditions.
Packaging	20kg/fiber drum
HS Code	<p>Toxicity: ORL-RAT-LD₅₀: >7,500mg/kg Inflammability: Flash point: 228°C Decomposition temp.: 391°C</p> <p>For more detailed information, please review the corresponding material safety data sheets.</p>
	<p>The information and recommendations contained herein are based on the current state of knowledge. However, no guarantee of any kind expressed or implied is made with respect to the information contained here.</p>