



GlobalVillage Sourcing, P. O. Box 600, Round Rock, TX 78680-0699

## TECHNICAL DATA SHEET

### GLOBASOL™ UVP 5

**ULTRAVIOLET LIGHT ABSORBER FOR PLASTICS, COATINGS AND ADHESIVES.**

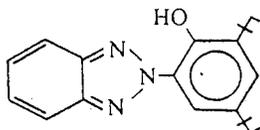
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**Revision: 7/13/09**

**Chemical Name** 2-(2'-hydroxy-3',5'-di-t-amyphenyl) benzotriazole

**CAS Number** 25973-55-1

**Structure:**



Molecular weight : 351.5

Molecular Formula  $C_{22}H_{29}N_3O$

### **Description**

GLOBASOL™ UVP 5 belongs to the family of substituted benzotriazoles which protect against Ultraviolet radiation. GLOBASOL™ UVP 5 has high solubility which makes it particularly useful for stabilizing coatings, polyolefin, styrene and urethanes. Compared to other GLOBASOL™ UV absorbers, GLOBASOL™ UVP 5 is more solvent soluble, has better resin compatibility and wash fastness, is less volatile, and provides a higher degree of stabilization.

### **Applications**

Globasol™ UVP 5 is most suitable for protective coatings due to its non-yellowing property during baking stage. Therefore, GLOBASOL™ UVP 5 has been widely used in the following area:

1. Thermoplastic urethane and related polyurethane.
2. Two-component epoxy.
3. Thermosetting acrylic enamel.
4. Photographic coating.



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### Guidelines for Use

A percentage of 0.1% - 0.5% of Globasol™ UVP 5 is recommended for protection. Light stability of polymer can be further enhanced by use of a phenolic antioxidant (e.g. Globasol™ AOX 8) and a hindered amine light stabilizer (e.g. Globasol™ SLP 1 and Globasol™ SLP 4) in combination with Globasol™ UVP 5.

### Product Forms

Off- white crystalline powder.

MELTING POINT		78-82 °C
BOILING POINT		> 300 °C
FLASH POINT		228 °C
DECOMPOSITION TEMP.		391 °C
VOLATILE MATTER		0.5% MAX.
ODOR		Faint
CLARITY IN TOLUENE		Clear solution (10g/100 ml)
TRANSMITTANCE	590nm	99% MIN
	500nm	97% MIN
	460nm	97% MIN
SPECIFIC GRAVITY		1.17 @ 20°C
SOLUBILITY (G/IN 100 ML SOLVENT)		
ETHYL ACETATE		0.20
ETHANOL		0.6
METHYL ETHYL KETONE		24
MINERAL SPIRITS		14
STYRENE		34
WATER		NIL

### Handling & Safety

Globasol™ UVP 5 requires no special safety measures provided the usual precautions for handling chemicals and dusty solids are observed. Avoid dust formation and ignition sources. For more detailed information please refer to the material safety data sheet.