Ultraviolet light absorber for plastics

UV ABSORBER

1.	General		
	Chiguard [®] 5431 belo	ngs to the f	amily of substituted benzotriazoles which protect against ultraviolet radiation.
	Compared to other C	hitec's UV a	absorbers, Chiguard [®] 5431 is very low in volatility which makes it especially
	suitable for those app	olications in	volving a high temperature process.
2.	Properties		
	Structure		
	Chuotaro	•	
	CAS Name		2,2'-Methylene bis(6-(2H-benzotriazol-2-yl)-4-,1,1,3,3,tetramethylbutyl)phenol)
	CAS No.		103597-45-1
	Molecular Formula	:	$C_{41}H_{50}N_6O_2$
	Molecular Weight	:	658.87
3.	Physical Data		
	Appearance		Off-white crystalline powder
	Odor		Faint
	Melting point		195 °C
	1% weight loss		332 °C (630 °F)
	Density	:	1.20 @20 °C
4.	Solubility		
	(g in 100 ml solvent)		
	Methylene chloride		70
	Toluene		34
	Ethyl acetate		0.06
	Acetone		0.05
			0.00

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5.	Specification					
	Appearance	:	Off-white to slightly yellow powder			
	Assay	:	98% min.			
	Melting point	:	190 °C min.			
	Clarity in toluene	:	Clear solution (5g/100ml)			
	Transmittance	:	92% min. @460 nm			
	(2g/100ml Toluene)		95% min. @500 nm			
6.	Application					
	Chiguard [®] 5431 is most suitable for polymer production where additive losses may occur during high temperature processing. Therefore, Chiguard [®] 5431 has been widely used in the following area:					
	1. Acrylic resin					
	2. Polycarbonate					
	3. Polyalkylene terephthalates					
	4. Polyamide					
	5. High performance plastic					
	A percentage of 0.3% - 3% of Chiguard [®] 5431 is recommended for protection. Light stability of polymer can be further enhanced by use of a phenolic antioxidant (e.g. DEOX 10 and 76) and a hindered amine light stabilizer (e.g. Chiguard [®] 770 and 944) in the combination with Chiguard [®] 5431.					

7. UV Spectrum





PRODUCT DATA SHEET CHIGUARD[®] 5431

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8. Comparison TGA Spectra



9.	Storage					
	Must be stored in closed containers in dark dry conditions.					
10.	Packaging					
	20kg net/carton box					

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