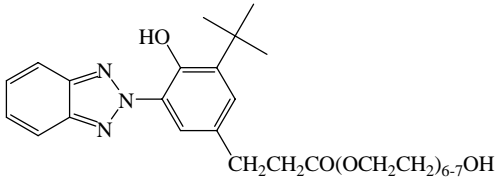
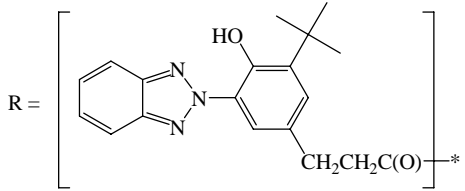


CERTIFICATE OF ANALYSIS

Trade name	UV-1130	
Chemical name	Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-Polyethylene Glycol (PEG 300)	
Structure	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 10px;"> 50%  </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> 38% $R(OCH_2CH_2)_{6-7}OR$ </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> R =  </div> <div style="display: flex; align-items: center;"> 12% $H(OCH_2CH_2)_{6-7}OH$ </div> </div>	
CAS No.	104810-48-2; 104810-47-1; 25322-68-3	
Batch No.	1130 -100506	
Manufacturing date	06 May 2010	
Expiry date	06 May 2012	
Test item	Specifications	Test results
Appearance	yellow to light amber viscous liquid	Light amber viscous liquid
Active Components (HPLC)	a. 104810-48-2 (40~55%) 104810-47-1 (30~45%) 25322-68-3 (10~16%) b. c.	a. 104810-48-2 (48.3%) b. 104810-47-1 (39.1%) c. 25322-68-3 (11.3 %)
Dynamic Viscosity at 20°C	7400mPa.s(+/-2.0%)	7322mPa.s(+/-1.5%)
Density at 20°C	1.17 g/cm3	1.17 g/cm3
Transmittance(460nm) (0.005% in toluene)	>=95%	>=95.9%
Transmittance(500nm)	>=97%	>=97.6%

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(0.005% in toluene)			
Methyl, alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-		<2%	1.0%
Loss on dry in vacuum(110 °C/1hour/133Pa)		<=0.5%	0.4%
Residue on ignition		<= 0.10 %	0.10 %
Storage	At least 2 years when stored in cool and dry conditions, in the original sealed containers		
Hazards	According to the present state of knowledge provided that this product is handled correctly there is no known danger to humans. Please observe the safety regulations in the Safety Data sheet.		