

**Ultraviolet light stabilizer for coatings**

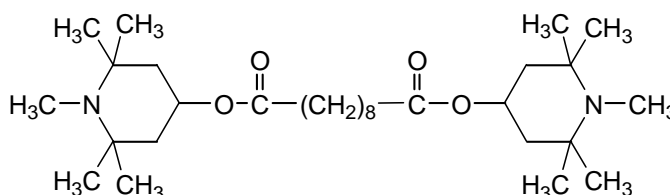
**LIGHT STABILIZER**

**1. General**

Chiguard® 353 is the first commercially available liquid light stabilizer belonging to the class of hindered amine light stabilizers. It provides outstanding light stability to various coating applications and, in addition, gives long-term heat stability to coatings by radical trapping mechanism similar to that of hinder phenol. Its effectiveness can be greatly enhanced by co-addition of UV absorbers or nickel-containing stabilizers.

**2. Properties**

Structure :



Chemical name : Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate,

CAS No. : 41556-26-7 & 82919-37-7

Molecular formula : C<sub>30</sub>H<sub>56</sub>N<sub>2</sub>O<sub>4</sub>

Molecular weight : 508.78

**3. Physical Data**

Appearance : Light yellow liquid  
Density : 0.99 g/cm<sup>3</sup> @20 °C  
Boiling point : 350 °C  
Vapor pressure : < 0.01 Pa @20 °C

**4. Solubility**

(g in 100 ml solvent, at 20 °C)

Butanol : > 50  
Butyl acetate : > 50  
Ethyl glycol : > 50  
MEK : > 50  
Styrene : > 50  
TMPTA : > 50  
Water : Nil

**5. Specification**

Appearance	:	Light yellow liquid
Assay	:	96% min.
Bis (1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	:	75% - 85%
Methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	:	15% - 25%
Volatiles	:	0.5% max.
Ash	:	0.1% max.
Clarity of solution	:	Clear
Color (Harzen/APHA)	:	70 max.
Transmittance		
@425 nm	:	95% min.
@450 nm	:	97% min.
@500 nm	:	98% min.