

**Ultraviolet light stabilizer for coatings**

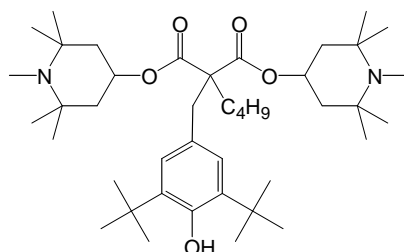
**LIGHT STABILIZER**

**1. General**

Chiguard<sup>®</sup> 100 belongs to the family of hindered amine light stabilizers (HALS), which protect against ultraviolet radiation. In addition, Chiguard<sup>®</sup> 100 has a hindered phenol type of anti-oxidant moiety, which provides the light stabilizer an extended life. Due to this, Chiguard<sup>®</sup> 100 is more effective in reducing coating defects like cracking and gloss loss.

**2. Properties**

Structure :



Chemical name : Bis(1,2,2,6,6-pentamethyl-4-piperidyl)-  
[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate  
CAS No. : 63843-89-0  
EINECS No. : 264-513-3  
Molecular formula : C<sub>42</sub>H<sub>72</sub>N<sub>2</sub>O<sub>5</sub>  
Molecular weight : 685.16

**3. Physical Data**

Appearance : White to slightly yellow powder  
Odor : None  
Boiling point : > 300 °C  
Melting point : 146-150 °C

**4. Solubility**

(g in 100 ml solvent)

MEK : 9  
Butanol : 2.5  
Butylacetate : 10  
Xylene : 10  
Water : Nil

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**5. Specification**

Appearance	:	White to slightly yellow powder
Assay	:	99% min.
Melting point	:	144 °C min.
Volatiles	:	0.5% max.
Transmittance	:	95% min. @460 nm
		97% min. @500 nm

**6. Packaging**

20 kg net/carton box