

### Introduction

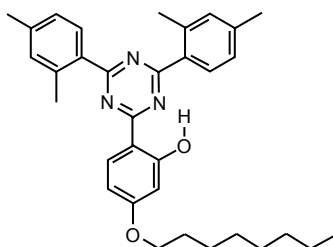
Chiguard<sup>®</sup> 1064 is a low volatility, high performance ultraviolet light absorber of the hydroxyphenyl triazine class. It exhibits high compatibility with a variety of polymers and resin compositions. Chiguard<sup>®</sup> 1064's non-basic nature makes it especially ideal for base sensitive polymers such as polyester and polycarbonate. It provides the advantages of high thermal stability, extended UV absorption, and superior protection against extreme processing conditions. When used in combination with HALS, the performance of Chiguard<sup>®</sup> 1064 can be further optimized in preventing gloss reduction, cracking, blistering, and color change.

### Application

Chiguard<sup>®</sup> 1064 is most suitable for the protection of polyesters, automotive clear coats, powder coatings for plastics and wood, and high performance industrial coatings. The dosage of Chiguard<sup>®</sup> 1064 ranges between 0.1% and 5% are recommended for protection. It depends on the substrate and performance requirement of the final application.

### Chemical Information

#### Structure



#### Chemical name

2-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-5-(octyloxy)phenol

**CAS No.** 2725-22-6

**Molecular formula** C<sub>33</sub>H<sub>39</sub>N<sub>3</sub>O<sub>2</sub>

**Molecular weight** 509.7

#### Physical Data

Odor : Faint  
Melting point : 89-91 °C  
Specific gravity : 1.15 @ 25 °C  
Vapor pressure : 8.5x10<sup>-2</sup> @ 25 °C  
Solubility in water : < 0.01 g/100mL

### Specification

Appearance : Light yellow powder  
Assay (LC) : 96% min.  
Volatiles : 0.5% max.  
Clarity of solution : Clear solution  
Absorbance : 0.30 max. @ 440 nm

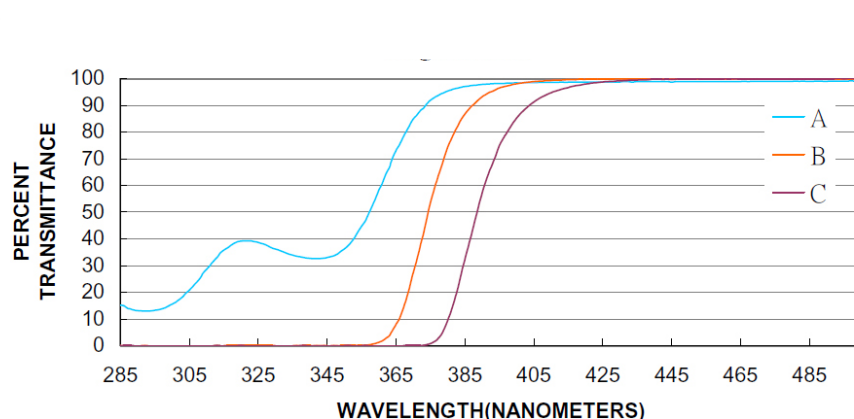
#### Solubility (g in 100ml solvent @ 25 °C)

Acetone : 3.9  
Ethyl acetate : 5.4  
Methanol : < 1  
Toluene : 80  
Water : < 0.01

### Packaging

25 kg Fiber drum

### UV Spectrum



Solvent: toluene

Concentration of A: 6.5 mg/L

Concentration of B: 65 mg/L

Concentration of C: 650 mg/L