S I N O G R E A T E N T E R P R I S E L T D .
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DETAILED TECHNICAL DATA SHEETS

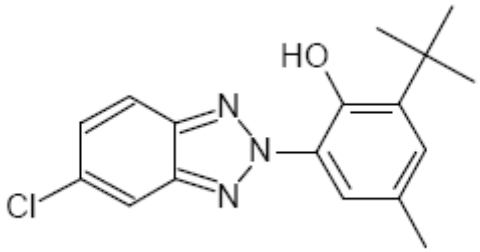
Product name: UV absorber- 326

General: UV absorber- 326 is a UV absorber of the hydroxyphenylbenzotriazole class, which imparts outstanding light stability to plastics and other organic substrates

Chemical name: 2-(2'-Hydroxy-3'-tert-butyl-5-'methylpheny)-5-chlorobenzotriazole

CAS number: 3896-11-5

Chemical Structure: UV absorber -326



Molecular weight: 315.8 g/mol

Application

UV absorber-326 is especially suited for polyolefins and cold cured polyesters.

Features/benefits

UV absorber- 326 has a wide range of indirect food approvals in polyolefins. It has a low volatility at high temperatures and high resistance to thermal degradation and can therefore be used without significant loss or decomposition in the polyolefin compounding and molding processes. In the use for the UV protection of polyester resins, UV absorber-326 does not form colored complexes with the metallic salts used for the curing process of these resins.

Product forms: Code: UV absorber -326
Appearance: Slightly yellow powder

Guidelines for use:

Polyolefins:

It is recommended to use UV absorber- 326 with a HALS type lightstabilizer system for best results. The recommended concentrations range for PP applications from 0.1-0.5%, for PE applications from 0.1% to 0.4%.

Polyester resins:

The recommended levels for normal polyester resins range from 0.2% to 0.3%, while for chlorinated, flame retardant polyester resins the recommendation is 0.5%.

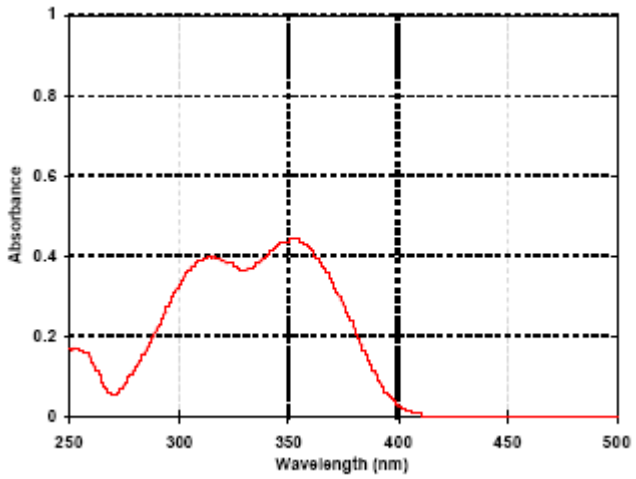
Physical Properties

Melting Range	138-141°C
Flashpoint	238°C DIN 51584
Specific Gravity(20 °C)	1.32g/ml
Vapor pressure(20 °C)	7.5E-7Pa
Bulk density	130-220g/l

Solubility(20°C)	**% w/w**
Acetone	1
Chloroform	11
Ethanol	-
Ethyl Acetate	2
n-Hexane	1
Methanol	0.1
Methylene chloride	9
Toluene	-

Volatility	**Pure substance; TGA, heating rate 20 °C/min in air**
Weight Loss (%)	Temperature °C
0.3	125
0.4	150
1.0	200
3.5	225
12.1	250
35.1	275

Absorption Spectrum (10 mg/l, Chloroform)



UV absorber-326 exhibits strong absorb-ance in the 300-400 nm region and minimal absorption in the visible re-gion (> 400 nm) of the spectrum. The absorption maxima are at 312 nm and 353 nm (£ = 15600 l/mol·cm) in chloroform solution.

Safety and Handling

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Prevent

contamination of the environment. Avoid dust formation and ignition sources. For more detailed information please refer to the material safety data sheet.

Registration

UV absorber -326 is listed on the following inventories

Australia	AICS
Canada	DSL
China	First Import
Europe	EINECS
Japan	MITI
korea	ECL
Philippines	PICCS
USA	TSCA

UV absorber-326 is approved in many countries for use in food contact applications.For detailed information refer to our Positive List or contact local Sales office.

Important Notice: The following supersedes Buyer's documents.

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