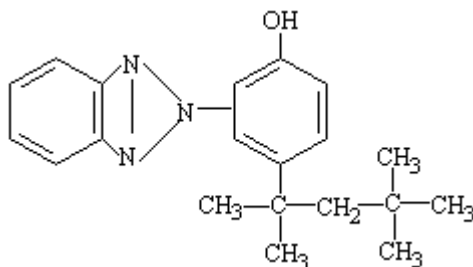


## Product Technical Data Sheet

<b>Product name:</b>	UV-5411 (UV-329)
<b>Chemical name:</b>	2-(2'-hydroxy-5'-tert-octylphenyl)benzotriazole
<b>Synonym:</b>	UV-5411, tinuvin 329, cyasorb 5411
<b>EC No:</b>	221-573-5
<b>CAS No:</b>	3147-75-9
<b>Molecular formula:</b>	C <sub>20</sub> H <sub>25</sub> N <sub>3</sub> O
<b>Structure formula:</b>	



<b>Applications:</b>	UV-329 is an effective light stabilizer for a variety of plastics and other organic substrates.
<b>Features/benefits:</b>	UV-329 protects polymers from UV radiation, helping to preserve the original appearance and physical integrity of molded articles, films, sheets, and fibers during outdoor weathering.
<b>Guidelines for use:</b>	The use levels of UV-329 range between 0.10 and 1.0%, depending on substrate and performance requirements of the final application. The product can be used alone or in combination with other additives such as light stabilizers (hindered amines), antioxidants (hindered phenols, phosphites, thiosynergists, hydroxylamines, benzofuranones), and other functional stabilizers and additives. The use of UV-329 in combination with hindered amine light stabilizers is particularly noteworthy in that a synergistic performance is often observed. Performance data of UV- 329 alone or in combination with other additives are available in selected substrates.

<b>Physical Properties</b>	<i>Melting Range</i>	103-105.3 °C
	<i>Flashpoint</i>	>150 °C
	<i>Specific Gravity (20 °C)</i>	1.18 g/cm <sup>3</sup>
	<i>Vapor Pressure (25 °C)</i>	1 E-5 Pa

### Solubility (20 °C) % w/w

<i>Water</i>	<0.01
<i>Acetone</i>	9
<i>Benzene</i>	32
<i>Chloroform</i>	37
<i>Cyclohexane</i>	15
<i>Ethylacetate</i>	15
<i>n-Hexane</i>	6
<i>Methanol</i>	0.6
<i>Methylene chloride</i>	38

<b>Volatility</b>	<b>Pure substance; TGA, heating rate 20 °C/min in air</b>
<i>Weight Loss (%)</i>	<i>Temperature °C</i>
1.0	180

TDS Hunan Chemical BV

2.0	200
5.0	220

**Handling & Safety**

In accordance with good industrial practice, handle with care and prevent contamination of the environment.  
Avoid dust formation and ignition sources.  
For more detailed information please refer to the material safety data sheet.

**Quality norm:**

technical grade

**Specification:**

Appearance:	White powder
Assay:	99.0% min.
Melting point:	103.0 ~ 105.3 °C
Moisture:	0.1% max.
Volatile matter:	0.5% max.
Ash content:	0.05% max.
Zinc:	5 ppm max.
Particle size (20mesh, pass):	90-100%
Light transmittance:	
440 (nm):	97.0% min.
500 (nm):	98.0% min.

**Packing:** in 15kg net PE bag, 30bags on pallet or as required