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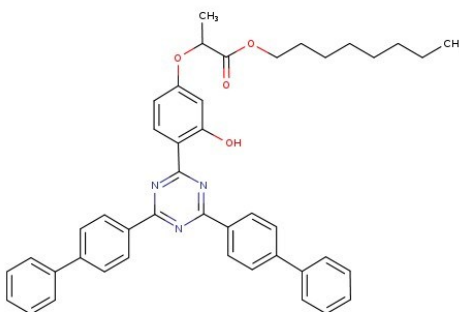
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Trade registration nr. 50769421 Chamber of Commerce Utrecht

Technical Data Sheet

27 August 2024

Product name:	UV-479
Product Form:	Powder
Chemical name:	Propanoic acid, 2-[4-[4,6-bis([1,1'-biphenyl]-4-yl)-1,3,5-triazin-2-yl]-3-hydroxyphenoxy]-, isooctyl ester
Synonym:	Tinuvin 479
CAS No:	204848-45-3
EINECS No:	444-090-3
Molecular formula:	C44H43N3O4
Molecular weight:	677.8
Structure formula:	



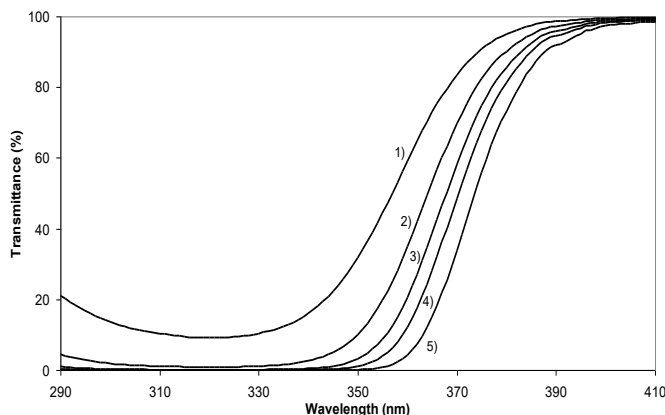
Chemical Specification

Appearance	Light yellow powder
Loss on drying (%)	1.0 max.
Assay (%)	98.0 min.

Packing: In 25kgs net drum or as required

Shelf life: 24months

UV Transmittance Spectrum



- 1) 0.001% TINUVIN 479 corresponds to 0.25% in a 40 µm film
- 2) 0.002% TINUVIN 479 corresponds to 0.50% in a 40 µm film
- 3) 0.003% TINUVIN 479 corresponds to 0.75% in a 40 µm film
- 4) 0.004% TINUVIN 479 corresponds to 1.0% in a 40 µm film
- 5) 0.006% TINUVIN 479 corresponds to 1.5% in a 40 µm film

Solubilities:

Solubility @ 20°C (g/100g solution):

Butyldiglycol	2
Butanol	< 1
Butylacetate	17
Butylglycolacetate	12
Methoxypropylacetate	10
Methoxypropanol	1

Features and application:

UV-479 is a hydroxyphenyl-triazine (HPT) UV absorber which provides excellent performance in coatings due to:

1. extremely high extinction coefficient
2. very high photostability for long life performance
3. very high thermal stability and performance for coatings exposed to high bake cycles and / or extreme environmental conditions
4. very low volatility
5. excellent performance in thin film applications
6. ideal spectral coverage in combination with other UV absorbers

UV-479 is designed to fulfill the high performance and durability needs for automotive and industrial finishes. Its high extinction coefficient allows the formulation of coatings with reduced UV absorber levels and / or thin film applications. Combinations especially with other HPT UV absorbers and the newest generation photoinitiators makes it an excellent choice for UV curing coatings.

UV-479 has been developed as an interaction-free UV absorber to be used in amine and / or metal catalysed coating systems or in coatings applied on base coats containing such catalysts.

UV-479 is recommended for automotive OEM and refinish systems, UV cured coatings and industrial finishes where long life performance is essential. Due to the high extinction coefficient and superior photostability applications specifically include thin film applications. Depending on the needs the spectral coverage can be further broadened through combination with other UV absorbers of the hydroxyphenyl-triazine or hydroxyphenyl-benzotriazole class such as UV-400 or UV-928.

The protective effects of UV-479 can enhanced when used in combination with hindered amine light stabilizers (HALS) such as UV-123,UV-292 or UV-152. These combinations provide best protection against gloss reduction, cracking, blistering, delamination and color change. The light stabilizers may be added to clear coats, base coats or solid shades.

The amount of UV-479 required for optimum performance should be determined in trials covering a concentration range.