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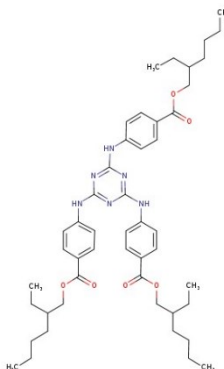
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Trade registration nr. 50769421 Chamber of Commerce Utrecht

Technical Data Sheet

10 March 2023

Product name:	EHT
Product Form:	Solid
Chemical name:	Tris(2-ethylhexyl)-4,4',4''-(1,3,5-triazine-2,4,6-triyltriimino)tribenzoate
Synonym:	UVINUL T 150; UV-507; Octyl triazone; Ethylhexyl Triazone; 4,4',4''-(1,3,5-triazine-2,4,6-triyltriimino)trisbenzoic acid tris(2-ethylhexyl)ester
CAS No:	88122-99-0
EINECS No:	402-070-1
Molecular formula:	C ₄₈ H ₆₆ N ₆ O ₆
Molecular weight:	823.07
Structure formula:	



Chemical Specification

Appearance	White to light yellow crystalline powder
Odor	Faintly characteristic odor
Identification (IR)	Infrared absorption <197K & 197A>
Identification (HPLC)	Corresponds to the chromatogram of this standard
Melting point (°C)	128.0 – 132.0
Specific extinction	1500 min.
Color (Gardner)	2.0 max.
Assay (HPLC, %)	98.0 – 103.0
Purity (HPLC, %)	99.0 min.
Total impurities (%)	1.0 max.
Individual impurity (%)	0.5 max.
Residual solvents (GC)	Conform

Microbiology

Total aerobic micro count (cfu/g)	100 max.
Total yeast & mold count (cfu/g)	100 max.

Pathogens

Escherichia coli (in 1g)	Negative
Salmonella (in 1g)	Negative
Candida albicans (in 1g)	Negative
Staphylococcus aureus (in 1g)	Negative
Pseudomonas aeruginosa (in 1g)	Negative

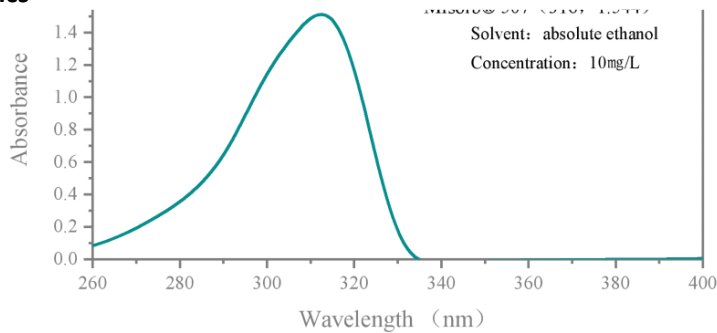
Heavy metals

Nickel (ppm)	1 max.
Mercury (ppm)	1 max.
Antimony (ppm)	1 max.
Lead (ppm)	5 max.
Arsenic (ppm)	2 max.
Cadmium (ppm)	1 max.
Cobalt (ppm)	1 max.
Chrome (ppm)	1 max.
Total (ppm)	10 max.

Packing: in 25kgs net drum, 450kgs(18drums) on pallet

Shelf life: 24months

UV characteristics



Features and application:

EHT is a highly effective UV-B filter with an exceptionally high absorptivity of over 1500 @ 314 nm. Because of its high A1/1 value, only small concentrations are required in cosmetic sunscreen preparations, to achieve a high SPF value. Concentrations up to 3% are recommended. Besides the polar nature of this product gives it good affinity to the keratin in the skin, so that formulations in which it is used are particularly water resistant. This property is further enhanced by its complete insolubility in water. EHT can crystallize after prolonged storage, as a result of supersaturation.

EHT has very good light stability. It remains practically unchanged, even when it is exposed to intense radiation.