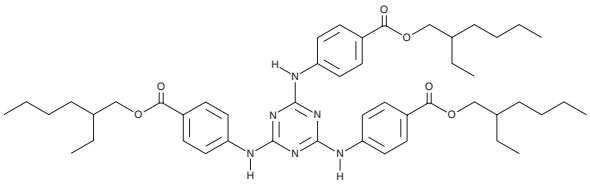
PRODUCT INFORMATION

Ethylhexyl Triazone

Item No. 46333

CAS Registry No.: 88122-99-0
Formal Name: 4,4′,4′′-(1,3,5-triazine-2,4,6-triyltriimino)*tris*-benzoic acid, 1,1′,1′′-*tris* (2-ethylhexyl) ester
Synonyms: EHT, Octyl Triazone
MF: $C_{48}H_{66}N_6O_6$
FW: 823.1
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ethylhexyl triazone (EHT) is supplied as a solid. A stock solution may be made by dissolving the EHT in the solvent of choice, which should be purged with an inert gas. EHT is soluble (≥10 mg/ml) in chloroform.

Description

EHT is a triazine UVB filter.[1] It does not induce mortality in *A. salina* brine shrimp and does not affect the growth of *Tetraselmis* marine microalga at 2 mg/L.[2] However, EHT is acutely lethal to the rotifer *B. calyciflorus* (LC_{50} = 12.86 mg/L).[3] EHT is not genotoxic to Chinese hamster lung (CHL) cells *in vitro* and does not induce phototoxicity in guinea pigs.[1] It has been found in wastewater.[4] Formulations containing EHT have been used as sun protectants in sunscreen products.

References

1. Wei, Y., Xiang, M., Dong, J., *et al.* Assessment of the potential genotoxicity and phototoxicity of triazine UV filters. *J. Dermatol. Sci. Cosmet. Technol.* **2(2)**, 100087 (2025).
2. Thorel, E., Clergeaud, F., Jaugeon, L., *et al.* Effect of 10 UV filters on the brine shrimp *Artemia salina* and the marine microalga *Tetraselmis* sp. *Toxics* **8(2)**, 29 (2020).
3. Lavorgna, M., Medici, A., Russo, C., *et al.* Ethylhexyl triazone sunscreen and its disinfection byproducts obtained after chlorine treatment: Ecofriendliness or ecotoxicity? *Sci. Total Environ.* **955:177279**, (2024).
4. Kupper, T., Plagellat, C., Brändli, R.C., *et al.* Fate and removal of polycyclic musks, UV filters and biocides during wastewater treatment. *Water Res.* **40(14)**, 2603-2612 (2006).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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