Candidate POPs

UV-328

CAS No. 25973-55-1

Full Name: Phenol, 2-(2*H*-benzotriazol-2-yl)-4,6-*bis*(1,1-dimethylpropyl)-

Trade Name: BLS 1328, Chiguard 328, Chisorb 328, Cyasorb UV 2337, Eversorb 74, GSTAB 328, Hostavin 3310 P, Kemisorb 74, Lowilite 28, Milestab 328, Seesorb 704, Songsorb 3280, Sumisorb 350, Thasorb UV328, Tin 328, Tinuvin 328, UV 2337, UV 74, Uvinul 3028, Viosorb 591

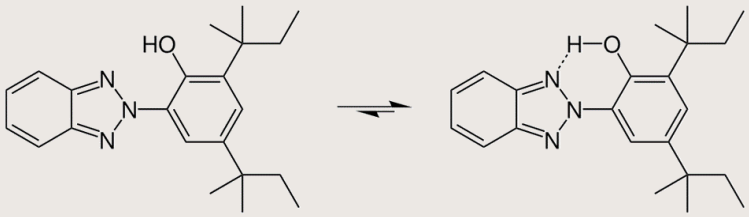
Synonyms: 2-(2*H*-Benzotriazol-2-yl)-4,6-di-*tert*-pentylphenol (BDTP), 2-(2'-Hydroxy-3',5'-di-*t*-amylphenyl) benzotriazole

Uses:

UV-328 is a phenolic benzotriazole that is used as a UV absorber to protect surfaces against discoloration and degradation under UV/sunlight. UV-328 has wide range of applications, but its main uses are in paints and coatings, and as an additive in a wide variety of plastics, including in the non-food contact layer of food packaging. In the automobile sector, UV-328 is used in paints, coatings and sealants, as well as in liquid crystal panels and meters mounted on vehicles, and resin for interior and exterior parts of vehicles. In food packaging, it is used as an additive in plastics, printing ink and adhesives.

Hazards and Risks to human health and the environment

UV-328 is characterized by its persistence and its capacity to bioaccumulate and to be long-range transported. Sources of UV-328 in the environment can include industrial facilities that produce or use the substance, wastewater treatment plants, stormwater, landfills and plastic litter/debris. UV-328 has been detected in various environment media, including ambient air, water, soil, sediment, biota and humans in many regions of the world. In mammals, the primary health effect of UV-328 is liver toxicity. UV-328 has also been associated with adverse effects on the kidneys in rats, and potential effects on the reproductive system have been suggested in studies on rats and dogs. UV-328 may also lead to anti-androgenic activity based on in vitro study. Finally, UV-328 has been found to be associated with adverse effects in fish.



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Reference

1. Risk profile for UV-328. UNEP/POPS/POPRC.17/13/Add.3.
2. Proposal to list UV-328 in Annex A to the Stockholm Convention on Persistent Organic Pollutants. Risk profile for UV-328. UNEP/POPS/POPRC.16/4.

Secretariat of the Basel, Rotterdam and Stockholm Conventions
11-13, Chemin des Anémones
1219 Châtelaine, Switzerland
Tel: +41 22 917 8271
Email: brs@brsmeas.org
Website: www.pops.int

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