

TEDX List of Potential Endocrine Disruptors

2-hydroxy-4-methoxy-benzophenone

CAS # 131-57-7

Alternative Names

benzophenone-3 (BP-3)
oxybenzone
(2-hydroxy-4-methoxyphenyl)phenyl-methanone

Categories*

Personal care product/Cosmetic ingredient
Pesticide ingredient
Plastic/Rubber

Evidence Supporting This Chemical as an Endocrine Disruptor

Jannesson L, Birkhed D, Scherl D, Gaffar A, Renvert S. 2004. Effect of oxybenzone on PGE2-production in vitro and on plaque and gingivitis in vivo. J Clin Periodontol 31(2):91-94.
Kunz PY, Fent K. 2006. Multiple hormonal activities of UV filters and comparison of in vivo and in vitro estrogenic activity of ethyl-4-aminobenzoate in fish. Aquat Toxicol 79(4):305-324.
Kunz PY, Galicia HF, Fent K. 2006. Comparison of in vitro and in vivo estrogenic activity of UV filters in fish. Toxicol Sci 90(2):349-361
Ma RS, Cotton B, Lichtensteiger W, Schlumpf M. 2003. UV filters with antagonistic action at androgen receptors in the MDA-kb2 cell transcriptional-activation assay. Toxicol Sci 74(1):43-50.
Schlecht C, Klammer H, Jarry H, Wuttke W. 2004. Effects of estradiol, benzophenone-2 and benzophenone-3 on the expression pattern of the estrogen receptors (ER) alpha and beta, the estrogen receptor-related receptor I (ERR1) and the aryl hydrocarbon receptor (AhR) in adult ovariectomized rats. Toxicology 205(1-2):123-130.
Schlumpf M, Cotton B, Conscience M, Haller V, Steinmann B, Lichtensteiger W. 2001. In vitro and in vivo estrogenicity of UV screens. Environ Health Perspect 109(3):239-244.
Schreurs RH, Sonneveld E, Jansen JH, Seinen W, van der Burg B. 2005. Interaction of polycyclic musks and UV filters with the estrogen receptor (ER), androgen receptor (AR), and progesterone receptor (PR) in reporter gene bioassays. Toxicol Sci 83(2):264-272.

*Category References

US Dept of Health & Human Services. Household Products Database.
US EPA. InertFinder.
US National Library of Medicine. Haz-Map.



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