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SECONDARY VALUES FOR BENZO[B]FLUORANTHENE (CAS # 205-99-2)

A search was conducted for information on the chemical properties and toxicity of benzo[b]fluoranthene (to human health and to fish and aquatic life) using the following databases and search engines: ECOTOX (toxicity to fish and aquatic life), IRIS (Integrated Risk Information System; toxicity to human health), CHEMFATE (environmental fate), and ChemFinder (chemical properties). This search yielded some information on benzo[b]fluoranthene's properties (log octanol/water partition coefficient and water solubility), but almost no data on its toxicity. There are only two reports in the ECOTOX database for freshwater species for this chemical, one of which is an EC50 for *Daphnia magna*; however, the duration of exposure was 24 hours, rather than the required 48 hours, and the result is a "greater than" value, with unmeasured treatment concentrations. While benzo[b]fluoranthene is listed as a Class B2 carcinogen (probable human carcinogen) in the IRIS database, there is no cancer slope factor currently available. Therefore, it is not possible to calculate any secondary values for benzo[k]fluoranthene at this time.