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### SECONDARY VALUES FOR 2-HEXANONE (CAS No. 591-78-6)

A search was conducted for information on the chemical properties and toxicity of 2-hexanone 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), and CHEMFATE (environmental fate).

#### Fish and Aquatic Life Secondary Values

Two records were found for 2-hexanone in the ECOTOX database. However, no toxicity data are available for any of the species necessary for calculation of a secondary value (i.e., because there are no Daphnid data available, the minimum toxicity database has not been met). Therefore, at this time, it is not possible to calculate acute or chronic secondary values for 2-hexanone. For reference, one of the two toxicity values available was an LC<sub>50</sub> of 428,000 µg/L for the fathead minnow.

#### Human Health Secondary Values

To calculate a criteria or secondary value for the protection of human health, it is first necessary to determine if the substance has been shown to be carcinogenic (which will result in the calculation of a human cancer criteria or secondary value) or not (which will result in the calculation of a human threshold criteria or secondary value). 2-Hexanone is not listed in EPA's IRIS database and has not yet been classified as to its carcinogenicity. Neither an oral reference dose (oral RfD) nor an oral slope factor are available for 2-hexanone (IRIS, 2004). Therefore, it is not possible to calculate human threshold or cancer secondary values for this substance.