MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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INTEROFFICE COMMUNICATION

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October 26, 2001

TO: File for 1-Hydroxcyclohexyl Phenyl Ketone (CAS# 947-19-3)

FROM: Michael Depa, Toxics Unit, Air Quality Division

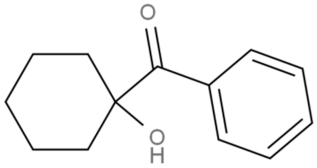
SUBJECT: Screening Level Determination

The initial threshold screening level (ITSL) for 1-hydroxcyclohexyl phenyl ketone is 0.1 µg/m³ based on an annual averaging time.

Other names found on the CAS registry printout for this CAS number include: α-hydroxy-α-cyclohexyl phenyl ketone and 1-benzoyl-1-hydroxycyclohexane.

The following references or databases were searched to identify data to determine the screening level: U.S. EPA Integrated Risk Information System (IRIS), Registry for Toxic Effects of Chemical Substances (RTECS), American Conference of Governmental and Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), National Institute for Occupational Safety and Health (NIOSH) Pocket Guide to Hazardous Chemicals, Environmental Protection Bureau Library, International Agency for Research on Cancer (IARC) Monographs, Chemical Abstract Service (CAS) Online (1967- October, 2001), National Library of Medicine (NLM), Health Effects Assessment Summary Tables (HEAST), and National Toxicology Program (NTP) Status Report. The EPA has not established a reference concentration (RfC) or reference dose (RfD) for 1-hydroxcydohexyl phenyl ketone. The molecular weight of 1-hydroxcyclohexyl phenyl ketone is 206.03g. The molecular formula is C13H16O2. There were no published records of a molecular structure for this compound; however, given the information from the CAS registry file the assumed molecular structure of 1-hydroxcyclohexyl phenyl ketone is shown in figure 1.

Figure 1



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