

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

April 18, 2005

TO: File for Cobalt 2-Ethylhexanonate (CAS No. 136-52-7)

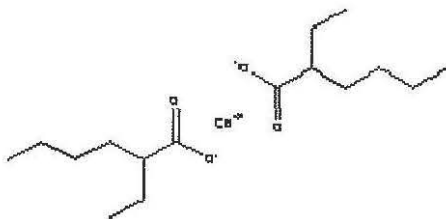
FROM: Michael Depa, Air Quality Division, Toxics Unit

SUBJECT: Screening Level Determination

The initial threshold screening level (ITSL) for cobalt 2-ethylhexanonate is $0.1 \mu\text{g}/\text{m}^3$ based on annual averaging time.

The following references or databases were searched to identify data to determine the screening level: U.S. Environmental Protection Agency (EPA) Integrated Risk Information System, Registry for Toxic Effects of Chemical Substances, American Conference of Governmental and Industrial Hygienists Threshold Limit Values, National Institute for Occupational Safety and Health Pocket Guide to Hazardous Chemicals, Environmental Protection Bureau Library, International Agency for Research on Cancer Monographs, Chemical Abstract Service (CAS) - Online (1967 - September 2003), National Library of Medicine, Health Effects Assessment Summary Tables, and National Toxicology Program Status Report. The EPA has not established a reference concentration or reference dose for cobalt 2-ethylhexanonate. The molecular structure of cobalt 2-ethylhexanonate is shown in Figure 1. The molecular weight of cobalt 2-ethylhexanonate is 345.34g.

Figure 1. Molecular Structure of Cobalt 2-Ethylhexanonate



After a thorough search of the literature, it was found that there were no toxicity studies available for review. Therefore, based on Rule 232(1)(i), the ITSL for cobalt 2-ethylhexanonate is $0.1 \mu\text{g}/\text{m}^3$ (annual averaging time).

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