

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

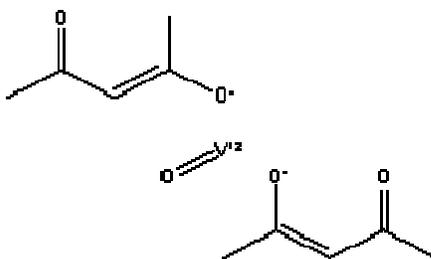
February 13, 2003

To: File for Vanadium Oxide Bis (2,4-Pentanedionate) (CAS# 3153-26-2)  
From: Michael Depa, Air Unit, Environmental Science and Services Division  
Subject: Screening Level Determination

The initial threshold screening level (ITSL) for vanadium oxide bis (2,4-pentanedionate) 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. 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- November 2002), 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 vanadium oxide bis (2,4-pentanedionate). The molecular weight of vanadium oxide bis (2,4-pentanedionate) is 265.16. The molecular structure of vanadium oxide bis (2,4-pentanedionate) is shown in figure 1.

Figure 1



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 Initial Threshold Screening Level (ITSL) for vanadium oxide bis (2,4-pentanedionate) is 0.1  $\mu\text{g}/\text{m}^3$  (annual averaging time).