

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

September 7, 1999

TO: File for Tert-butyl-m-cresol (CAS# 1333-13-7)
FROM: Michael Depa, Toxics Unit, Air Quality Division
SUBJECT: Screening Level Determination

The initial threshold screening level (ITSL) for tert-butyl-m-cresol is 0.1 µg/m³ (annual average).

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- August 7, 1998), 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 dose (RfD) or a reference concentration (RfC) for tert-butyl-m-cresol. There are no occupational exposure limits (e.g., ACGIH TLV or NIOSH REL) for tert-butyl-m-cresol. The molecular weight of tert-butyl-m-cresol is 164g.

A thorough search of the literature did not produce any toxicological information on tert-butyl-m-cresol. Therefore, the screening level was based on the default value of 0.1 µg/m³ (annual) pursuant to Rule 232(1)(i).

MD:ST