

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

TO: 2,2-Dimethoxypropane file (CAS # 77-76-9)  
FROM: Gary Butterfield  
SUBJECT: Screening level for 2,2-Dimethoxypropane  
DATE: March 13, 2008

2,2-Dimethoxypropane is a liquid. The molecular formula is  $C_5H_{12}O_2$ . The molecular weight is approximately 104 g/mol. The melting point is -47C, and the boiling point is 83C. The vapor pressure has been reported to be 60 mmHg at 15.8C.

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 (IRIS), National Institute for Occupational Safety and Health (NIOSH) Registry for Toxic Effects of Chemical Substances (RTECS), American Conference of Governmental and Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), Michigan Department of Environmental Quality (DEQ) library, International Agency for Research on Cancer (IARC) Monographs, Chemical Abstract Service (CAS) Online (1968 - Feb 2008), National Library of Medicine (NLM) - Toxline, and National Toxicology Program (NTP) Status Report.

The CAS and NLM on-line literature searches were conducted on Feb. 13, 2007. There was no toxicity data found during the literature searches for 2,2-dimethoxypropane. Therefore, the ITSL is being set at the default value of  $0.1 \text{ ug/m}^3$  with annual averaging under 232(1)(i).

GB:lh