

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

September 8, 2003

TO: 2,6-dichlorobenzene file (CAS # 608-31-1)

FROM: Gary Butterfield

SUBJECT: Screening level for 2,6-dichlorobenzene

2,6-Dichlorobenzene is also commonly known as 2,6-dichloroaniline. This material is a solid, crystalline material with a melting point of 39 degrees Celsius, and a boiling point of 97 degrees Celsius. The molecular weight of 2,6-dichlorobenzene is 162.0 g/mol. 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 - May 2003), National Library of Medicine (NLM) - Toxline, and National Toxicology Program (NTP) Status Report. The CAS and NLM on-line literature searches were conducted on May 5, 2003. The literature searches found many hits for this CAS number. However, none of the information located during the literature searches could be used to establish a screening level. Several IP injection studies were found, and numerous in vitro studies looked at toxicity to bacteria or cell cultures. Due to a lack of available toxicity information the ITSL is being set at the default value of 0.1 $\mu\text{g}/\text{m}^3$ with annual averaging, based on R232(1)(i). As a solid at ambient temperatures, there needs to be some consideration of possible airborne 2,6-dichlorobenzene concentration that may have an impact on airborne particulate matter being increased to concentrations greater than the PM NAAQS.