

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

TO: File for Potassium Oxide (CAS #12136-45-7)
FROM: Mary Lee Hultin, Toxics Unit, Air Quality Division
SUBJECT: Screening Level for Potassium Oxide (CAS #12136-45-7)
DATE: July 13, 2007

The screening level for the above-mentioned compound is $0.1 \mu\text{g}/\text{m}^3$ based on annual averaging.

A full literature review has been conducted for the purpose of deriving a final screening level for this compound. The following references or databases were searched to identify data to determine the screening level: IRIS, RTECS, EPB-CCD, DEQ library, CAS-online, NLM-online, IARC, NIOSH Pocket Guide, and ACGIH Guide. The U.S. Environmental Protection Agency (USEPA) has not developed a reference dose or reference concentration for potassium oxide. No toxicity data was found sufficient for screening level derivation for this compound. Pursuant to Michigan Act 451, Part 2, R 336.1232 (1)(i), when an initial threshold screening level (ITSL) cannot be determined, the value will be $0.1 \mu\text{g}/\text{m}^3$ based on annual averaging.

ITSL= $0.1 \mu\text{g}/\text{m}^3$ with an annual averaging time.

MLH:lh