

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

OCTOBER 12, 1994

TO: File for Diphenyloxide (CAS# 101-84-8)
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FROM: Michael Depa, Toxics Unit
SUBJECT: Screening Level Determination

The initial threshold screening level (ITSL) for diphenyloxide (also known as phenyl ether) is $70 \mu\text{g}/\text{m}^3$ based on an eight hour averaging time.

The following references or databases were searched to identify data to determine the ITSL: IRIS, RTECS, ACGIH Threshold Limit Values, NIOSH Pocket Guide to Hazardous Chemicals, Environmental Protection Bureau Library, IARC Monographs, CAS Online (1967-August 20, 1994), National Library of Medicine, Health Effects Assessment Summary Tables, and NTP Status Report. Review of these sources found that EPA has not established an RfC or RfD for diphenyloxide. Occupational exposure limits (OELs) were available for diphenyloxide. The NIOSH REL and the ACGIH TLV for diphenyloxide were both $7 \text{ mg}/\text{m}^3$. The OEL of $7 \text{ mg}/\text{m}^3$ was used to calculate the ITSL for diphenyloxide. Pursuant of Rule 232(1)(c) the ITSL was calculated as follows:

$$\text{ITSL} = \frac{\text{OEL}}{100}$$

$$\text{ITSL} = \frac{7 \text{ mg} / \text{m}^3}{100}$$

$$\text{ITSL} = 0.070 \text{ mg} / \text{m}^3$$

$$\text{ITSL} = 70 \mu\text{g} / \text{m}^3$$

The ITSL for diphenyloxide is 70 $\mu\text{g}/\text{m}^3$ based on an eight hour averaging time.

ACGIH (1993) Documentation of threshold limit values and biological exposure indices. Cincinnati, OH. pages 1231-1232.