

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

February 7, 1996

TO: Diethylene glycol monophenyl ether file (CAS # 104-68-7)

FROM: Gary Butterfield

SUBJECT: Screening level for diethylene glycol monophenyl ether

A Dec 11, 1995 CAS and NLM on-line literature search was not able to locate any toxicity studies on this material that could be used to establish a screening level under R230 - R232.

RTECS reports a rat LD50 of 2140 mg/kg from study results of Smyth et al (1954). The screening level can be calculated from the equation in R232(1)(h) which is based on the rat LD50. The screening level can be calculated as follows.

$$\text{ITSL} = \frac{2140 \text{ mg/kg}}{500 \times 40 \times 100} \times \frac{1}{(0.927)(0.167)} = 7 \text{ ug/m}^3 \quad \text{with annual averaging}$$

Refernces:

Smyth et al. 1954. Range finding toxicity data List V. AMA Arch Ind Hyg Occupat 10:61-68.