

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

August 23, 1993

TO: File for Diethylene Triamine (CAS # 111-40-0)

FROM: Michael Depa, Toxics Unit

SUBJECT: Interim Initial Threshold Screening Level

The interim initial threshold screening level (ITSL) for Diethylene Triamine (DETA) is 42 ug/m<sup>3</sup> based on a 8 hour averaging time.

RfC or RfD values were not available. The ACGIH TLV and NIOSH REL for DETA are 4.2 mg/m<sup>3</sup>. Based on Rule 232(1)(c) the ITSL is determined as follows:

$$\text{ITSL} = \text{OEL divided by } 100$$

Where the occupational exposure level (OEL) is the lowest value of the NIOSH REL or the ACGIH TLV. Since those values are the same the ITSL is based on 4.2 mg/m<sup>3</sup>.

The ACGIH Documentation and the RTECS database for DETA were analyzed for toxicity information. Both indicated there is no evidence of carcinogenicity. ACGIH based the TLV on acute animal and human data. The TLV is based on the capacity of DETA to cause permanent severe corneal injury and pulmonary and cutaneous sensitization in humans.

DETA is to be placed on the Interim ITSL database because the TLV is based entirely on acute data.

MD:ma