

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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INTEROFFICE COMMUNICATION

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November 10, 1998

TO: File for N,N-dimethyl octadecylamine (CAS #124-28-7)

FROM: Cathy Simon, Supervisor, Toxics Unit, Air Quality Division

SUBJECT: Change in the Initial Threshold Screening Level (ITSL)

The ITSL for N,N-dimethyl octadecylamine has been changed from 0.04 ug/m<sup>3</sup> to 0.1 ug/m<sup>3</sup> based on an annual averaging time.

The change in the ITSL was made due to a revision in the State's air toxic rules which became effective on November 10, 1998. Previously, the ITSL had been set pursuant to Rule 232(i). This rule sets the ITSL at a default value of 0.04 ug/m<sup>3</sup> (annual average) when no specific data are available to determine an ITSL. The November 10, 1998 revisions to the rules changed this default ITSL to a value of 0.1 ug/m<sup>3</sup>.

No updated review of the literature has been done since the ITSL was originally set at a value of 0.04 ug/m<sup>3</sup>, to determine if new data are available for this compound.

CAS:SLB

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

January 4, 1995

TO: N,N-Dimethyl octadecylamine file (CAS # 124-28-7)  
FROM: Gary Butterfield  
SUBJECT: Screening level for N,N-Dimethyl octadecylamine

There is no EPA RfC or RfD for N,N-dimethyl octadecylamine, which is also commonly known by the manufacturers name of Armeen DM 18D. There is no occupational exposure limits established by ACGIH, OSHA or NIOSH for this material. An on-line search of CAS and NLM was conducted on Nov. 21, 1994 to attempt to locate any published toxicity articles. The on-line searches had a few hits, but these hits did not identify any toxicity studies that could be used to calculate a screening level. The listing in RTECS for N,N-dimethyl octadecylamine had some foreign studies that evaluated the irritation potential to skin and eyes, and the acute toxicity from the intraperitoneal route of exposure. Information that is not usable to calculate a screening level.

Due to a lack of toxicity data being available, the ITSL for N,N-dimethyl octadecylamine is being set at 0.04 ug/m<sup>3</sup> with annual averaging, as specified under Rule 232(1)(i).