

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

August 24, 2001

TO: File for hydroxyl-terminated dimethyl siloxanes and silicones  
(CASRN 70131-67-8)

FROM: Mary Lee Hultin, Toxics Unit, Air Quality Division

SUBJECT: Initial Threshold Screening Level

The initial threshold screening level (ITSL) for hydroxyl-terminated dimethyl siloxanes and silicones (CASRN 70131-67-8) remains at  $0.1 \mu\text{g}/\text{m}^3$  based on an annual averaging time.

The following references or databases were searched to identify data to determine the ITSL: IRIS, RTECS, EPBCCD, MDEQ library, CAS-online, NLM-online, and ACGIH Guide.

The compound has a vapor pressure of  $<1$  at  $20^\circ\text{C}$  and is a polymer. Although studies exposing rats to a substantially saturated vapor were found, the uncertainty regarding exact vapor pressure and length of the polymer negates the derivation of an ITSL. Therefore, the ITSL is set at trace.

**The ITSL for hydroxyl-terminated dimethyl siloxanes and silicones =  $0.1 \mu\text{g}/\text{m}^3$  based an annual averaging.**

MLH:CB:DB

cc: Cathy Simon, AQD  
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Chris Bush, AQD