

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**INTEROFFICE COMMUNICATION**

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January 19, 2016

TO: File for Thiram (CAS # 137-26-8)  
FROM: Mike Depa, Toxics Unit, Air Quality Division  
SUBJECT: Initial Threshold Screening Level

The Initial Threshold Screening Level (ITSL) for thiram is 18  $\mu\text{g}/\text{m}^3$  with annual averaging time.

Previously, the averaging time (AT) assigned to thiram was 24 hours, as per the default methodology (see attached memo from Mary Lee Hultin dated October 2, 1992). The current file review concludes that the AT may appropriately be set at annual, based on the nature and duration of the key study and the ITSL value derivation, as allowed under Rule 229(2)(b). Therefore, the AT is set to annual.

attachment

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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INTEROFFICE COMMUNICATION

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October 2, 1992

TO: File for thiram (CAS # 137-26-8)

FROM: Mary Lee Hultin, Toxics Unit

SUBJECT: ITSL for thiram

The U.S. EPA IRIS database lists a reference dose (RfD) for thiram (CAS No. 137-26-8). The RfD of 5E-3 mg/kg-day represents a No Adverse Effect Level (NOAEL) of 100 ppm from a 2 year rat feeding study. Rats receiving 300, 1000, or 2000 ppm of thiram in their diets exhibited the following signs of neurotoxicity: weakness, ataxia, varying degrees of hind limb paralysis and calcified masses in the basal ganglia in the cerebellum. The no effect dose of 100 ppm was converted by EPA to 5 mg/kg-day. The ACGIH also has a TLV of 1 mg/m<sup>3</sup> for thiram. In accordance with Rule 232, the RfD is used preferentially since there is no evidence to suggest that its use is inappropriate.

ITSL Oral RfD x (70 kg/20 m<sup>3</sup>)  
ITSL = 5E-3 mg/kg-day x (70 kg/20 m<sup>3</sup>) = 1.75E-2 mg/m<sup>3</sup>  
or 17.5 ug/m<sup>3</sup>  
based on 24 hr. averaging