

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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## INTEROFFICE COMMUNICATION

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OCTOBER 11, 1994

TO: File for Flumetsulam (CAS# 98967-40-9)

FROM: Michael Depa, Toxics Unit

SUBJECT: Screening Level Determination

The initial threshold screening level (ITSL) for flumetsulam is 26  $\mu\text{g}/\text{m}^3$  based on an annual averaging time.

The following references or databases were searched to identify data to determine the ITSL: IRIS, RTECS, ACGIH Threshold Limit Values, NIOSH Pocket Guide to Hazardous Chemicals, Environmental Protection Bureau Library, IARC Monographs, CAS Online (1967-August 22, 1994), National Library of Medicine, Health Effects Assessment Summary Tables, and NTP Status Report. Review of these sources found that EPA has not established an RfC or RfD for flumetsulam. Occupational exposure limits were not available. A surrogate LC50 was made available from The Dow Chemical Company (Dow, 1994). Groups of 5 male and 5 female rats (strain not given) were exposed for 4 hours to a particulate aerosol concentration of 1.28 mg/l, with mass median aerodynamic diameters and geometric standard deviations for the two exposures of  $3.8 \mu\text{m} + 2.2$  and  $3.4 \mu\text{m} + 2.2$ , respectively. All animals survived the 4 hour exposure and 14 day post exposure period with no clinically visible signs. The concentration of 1.28 mg/l was converted to 1280  $\text{mg}/\text{m}^3$  and the ITSL was calculated as follows:

$$\text{ITSL} = \frac{\text{LC50 (mg / m}^3\text{)}}{500 \times 100}$$

$$\text{ITSL} = \frac{1280 \text{ mg / m}^3}{500 \times 100}$$

$$\text{ITSL} = 26 \times 10^{-3} \text{ mg / m}^3$$

$$\text{ITSL} = 26 \text{ } \mu\text{g / m}^3$$

The ITSL for flumetsulam is  $26 \text{ } \mu\text{g/m}^3$  based on an annual averaging time.

Dow. 1994. Personal communication from D.A. Nash (Faximile, dated Sep 6, 1994).  
Thomas Hanley Jr. Chemical Hazard Evaluation and Communications (517) 636-  
1437. Memo dated April 5, 1993. M. Klemp, Michigan Division Industrial Hygiene,  
214 Building.