

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

JANUARY 25, 1995

TO: File for Stearic Acid (CAS # 57-11-4)

FROM: Michael Depa, Toxics Unit

SUBJECT: Screening Level Determination

The initial threshold screening level (ITSL) for stearic acid is $100 \mu\text{g}/\text{m}^3$ based on an eight hour 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-June 7, 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 stearic acid. An occupational exposure limit (OEL) is available for stearic acid. The ACGIH TLV for stearic acid is $10 \text{ mg}/\text{m}^3$. The OEL was used to calculate the ITSL. Pursuant of Rule 232(1)(c) the ITSL was calculated as follows:

$$\text{ITSL} = \frac{\text{OEL}}{100}$$

$$\text{ITSL} = \frac{10 \text{ mg}/\text{m}^3}{100}$$

$$\text{ITSL} = 0.100 \text{ mg}/\text{m}^3$$

$$\text{ITSL} = 100 \mu\text{g}/\text{m}^3$$

The ITSL for stearic acid is $100 \mu\text{g}/\text{m}^3$ based on an eight hour averaging time.

ACGIH (1993) Documentation of threshold limit values and biological exposure indices. Cincinnati, OH.