

**MICHIGAN DEPARTMENT OF NATURAL RESOURCES**

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**INTEROFFICE COMMUNICATION**

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SEPTEMBER 29, 1994

TO: File for Magnesium Carbonate (CAS# 546-93-0)

FROM: Michael Depa, Toxics Unit

SUBJECT: Screening Level Determination

The initial threshold screening level (ITSL) for magnesium carbonate is 50 µg/m<sup>3</sup> based on an 8 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-August 20, 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 magnesium carbonate. Occupational exposure limits (OELs) were available. The ACGTH TLV for magnesium carbonate is 10 mg/m<sup>3</sup>. The NIOSH REL for magnesium carbonate is 5 mg/m<sup>3</sup> (respirable dust). Based on Rule 232(1)(c) the ITSL is equal to the OEL divided by 100. It was deemed appropriate to use the NIOSH REL in order to calculate the ITSL. This calculation is shown below.

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

$$\text{ITSL} = (5 \text{ mg/m}^3)/100$$

$$\text{ITSL} = 0.05 \text{ mg/m}^3$$

$$\text{ITSL} = 50 \text{ µg/m}^3$$

The ITSL for magnesium carbonate is 50 µg/m<sup>3</sup> based on an 8 hour averaging time.