

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**INTEROFFICE COMMUNICATION**

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November 10, 1998

TO: File for Meclofenamic Acid (CAS # 644-62-2)

FROM: Cathy Simon, Supervisor, Toxics Unit, Air Quality Division

SUBJECT: Change in the Initial Threshold Screening Level (ITSL)

The ITSL for meclofenamic acid has been changed from 0.04  $\mu\text{g}/\text{m}^3$  to 0.1  $\mu\text{g}/\text{m}^3$  based on an annual averaging time.

The change in the ITSL was made due to a revision in the State's air toxic rules which became effective on November 10, 1998. Previously, the ITSL had been set pursuant to Rule 232(i). This rule sets the ITSL at a default value of 0.04  $\mu\text{g}/\text{m}^3$  (annual average) when no specific data are available to determine an ITSL. The November 10, 1998 revisions to the rules changed this default ITSL to a value of 0.1  $\mu\text{g}/\text{m}^3$ .

No updated review of the literature has been done since the ITSL was originally set at a value of 0.04  $\mu\text{g}/\text{m}^3$ , to determine if new data are available for this compound.

CAS:SLB

**MICHIGAN DEPARTMENT OF NATURAL RESOURCES**

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**INTEROFFICE COMMUNICATION**

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September 30, 1993

TO: File for Meclofenamic Acid (CAS NO. 644-62-2)

FROM: Marco Bianchi

SUBJECT: Initial Threshold Screening Level

The initial threshold screening level (ITSt.) for meclofenarnic acid is 0.04 µg/m<sup>3</sup> based on an annual averaging time.

The following references or databases were searched to identify data to determine the ITSL: IRIS, HEAST, RTECS, IARC, EPB-CCD, EPB—Library, NTP Management Status Report, CAS-online, NLM-online, NIOSH Pocket Guide, and ACGIH Guide.

Data obtained from RTECS listed one oral rat LD50 study. However, upon further investigation of the actual literature only the LD50 value was reported with no details of the actual study. This value was reportedly to have come from the Warner/Lambert Research Institute.

A CAS-online and NLM-online search obtained only one reference that was relevant for further investigation. An oral rat reproduction/teratology study (Petrere et al., 1985) was rigorous in methodology, however, results were equivocal. Dose related maternal effects were not observed in the lowest dose group for the perinatal-postnatal study, but dose related maternal effects were noticed in all of the dose groups for the female-fertility study. Because all dose levels were effect levels, neither a NOAEL nor a LOAEL could be established from this study. Therefore, due to insufficient data, the ITSL for meclofenamic acid is set at 0.04 µg/m<sup>3</sup> based on an annual average.

ITSL = 0.04 µg/m<sup>3</sup> based on an annual average.

MB: ma