

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

August 26, 1999

TO: Magnesium nitrate file (CAS# 10377-60-3)

FROM: Gary Butterfield

SUBJECT: Screening Level for Magnesium nitrate

A June 9, 1999 CAS and NLM on-line literature search did not find any toxicity studies that had information that could be used to establish a screening level. A review of standard secondary toxicity references (RTECS, EPA IRIS, IARC, NTP) also did not find any toxicity studies that could be used to set a screening level.

Other magnesium compounds (the metallic form, hydroxide, and stearate) do have AQD screening levels established based on the ACGIH TLV for magnesium oxide. As the nitrate portion of the magnesium nitrate compound is expected to have significantly less toxic action than the metal portion, it can be concluded that the ITSL for magnesium nitrate should also be based on the ITSL for magnesium oxide. Therefore, the magnesium nitrate screening level is being established at a concentration of 100 $\mu\text{g}/\text{m}^3$ with 8-hour averaging.

GB:LF