

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

November 18, 1993

TO: File for Cupric Acetate (142-71-2)
FROM: Marco Bianchi
SUBJECT: Initial Threshold Screening Level

The initial threshold screening level (ITSL) for cupric acetate is $2 \mu\text{g}/\text{m}^3$ based on a 8 hour averaging time.

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

A review of RTECs provided no information about cupric acetate but listed an occupational exposure for copper of $0.2 \text{ mg}/\text{m}^3$ as a fume, and $1 \text{ mg}/\text{m}^3$ for dust and mists. These numbers were substantiated in the NIOSH and ACGIH guides.

For the purpose of establishing an interim ITSL for cupric acetate, the more conservative value of $0.2 \text{ mg}/\text{m}^3$ for copper fume will be used to set a screening level. The acetate moiety is not expected to contribute significantly to the overall toxicity. Further database assessments provided no additional information for cupric acetate.

The Interim ITSL based on the NIOSH/ACGIH copper fume value of $0.2 \text{ mg}/\text{m}^3$ was determined as shown below:

ACGIH TLV = $0.2 \text{ mg}/\text{m}^3$; or $200 \mu\text{g}/\text{m}^3$

ITSL = 1% of the ACGIH

$200 \mu\text{g}/\text{m}^3 \times 0.01 = 2 \mu\text{g}/\text{m}^3$

The Interim ITSL for cupric acetate = $2 \mu\text{g}/\text{m}^3$ for a 8 hour averaging time.

References:

ACGIH. 1992. TLVs for chemical substances and physical agents and BEI's.

MB:ma

142-71-2

From: Gary Butterfield
Date: 12-2-2009
Subject: copper compounds screening level

ITSL for specific copper compounds is now based on the ITSL for copper and copper compounds see CAS # 7440-50-8 - as of 12-2-2009