**STUDY TYPE:** 30-Day Dermal Toxicity - rat; OPPTS 870.3250 (rodent) [§82-3]; OECD 411.

**PC CODE:** 068103

**DATA EVALUATION RECORD**

Updated Executive Summary to
Previous TXR # 003991

**TEST MATERIAL (PURITY):** MITC (purity not given)

**SYNONYMS:** Methyl isothiocyanate


**SPONSOR:** Nor-Am Agricultural Products

**EXECUTIVE SUMMARY:**

In a 30-day dermal toxicity study (MRID 00132815, MITC (% ai, and lot no. not provided) was dissolved in benzol and applied to a 4x4 cm area of skin of 10 Sprague Dawley rats/sex/dose at 0, 0, 120, 240, or 480 mg/kg/day during a 30-day period. Exposure duration (ie, number of hours per day or days/week) is not given in the study. (However, MITC is expected to volatilize quickly).

No changes in urinalysis was noted. Two animals died during the study: one each in the control and low dose groups. A large abscess in the lung was attributed as the cause of death in each case.

At termination, body weight and body weight gain were decreased in all dose groups (-60% to -70% in males and -20% in females). Although no changes in water consumption were noted, decreased food consumption was noted in all treatment groups.
Dermal ulceration was observed in all treatment groups within two weeks. The degree of ulceration was dose related and accompanied by severe cornification and necrosis of the exposed area.

The systemic LOAEL is 120 mg/kg/day, based on decreased body weight gain and food intake. The NOAEL was not established (< 120 mg/kg/day).

This 30-day dermal toxicity study in the rat is unacceptable-guideline and does not satisfy the guideline requirement for a subchronic dermal toxicity study (OPPTS 870.3250; OECD 411) in rat. This study has numerous deficiencies and cannot be upgraded; a NOAEL was not identified.

**COMPLIANCE:** Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were not provided.
DATA FOR ENTRY INTO ISIS

Subchronic Dermal (90 day) Study - rodents (870.3250)

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<th>PC code</th>
<th>MRID</th>
<th>Study</th>
<th>Species</th>
<th>Duration</th>
<th>Route</th>
<th>Admin</th>
<th>Dose range mg/kg/day</th>
<th>Doses mg/kg/day</th>
<th>NOAEL mg/kg/day</th>
<th>LOAEL mg/kg/day</th>
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<td>rat</td>
<td>30 days</td>
<td>derma l</td>
<td>dermal</td>
<td>120-480</td>
<td>0, 120, 240, 480</td>
<td>Not established</td>
<td>120</td>
<td>body weight decreased</td>
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