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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
PREVENTION, PESTICIDES, AND
TOXIC SUBSTANCES

MEMORANDUM

Subject: MITC Ecological Effects Information

From: Dennis McLane
Ecological Effects Branch
Environmental Fate and Effects Division (7507C)

To: Kathy Monk, SACS

Because MITC is used as a soil fumigant, a wood preservative and is highly volatile only minimum data were required. The data required in the phase IV review for reregistration were:

- 72-1(a) Acute Fish/Bluegill
- 72-1(c) Acute Fish/Rainbow Trout
- 72-2(b) Acute Aquatic Invertebrates
- 122-1(a) Seed Germination/Seedling Emergence
- 122-1(b) Vegetative Vigor
- 122-2 Aquatic Plant Growth

Degussa Corporation was concerned about the required plant studies for their wood treatment product. They requested a waiver for those studies. EEB agreed because they indicated that the use of the product as described on the Degussa label precludes contact with soil or potential effluent into surface waters. However, the data are still required for other uses.

In addition to the required studies EEB received three avian studies: one oral LD₅₀ and two LC₅₀. None of these studies were considered valid nor were they reparable. However, because of the chemical's very volatile nature those studies were not considered to be feasible nor are they required.

Of the required studies, the three aquatic studies have been submitted and all fulfill the guideline requirements. The bluegill sunfish, rainbow trout, and *Daphnia magna* LC₅₀s were 142, 94, and 55 ppb, respectively. Based on the toxicity categories reported in Brooks (et al. 1973) the rainbow trout and the *Daphnia* are in the "very highly toxic" category and the bluegill is in the "highly toxic" category.

If any further information is needed please call Dennis
McLane 305-5096

Toxic Categories (Brooks et al. 1973)

ppb

<100	very highly toxic
100-1000	highly toxic
1000-10000	moderately toxic
10000-100000	slightly toxic
100000>	practically nontoxic