MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

October 21, 1994

TO:

File for 5-Bp-bisenamine (97658-80-5)

FROM:

Marco Bianchi

SUBJECT:

Initial Threshold Screening Level

The initial threshold screening level (ITSL) for 5-Bp-bisenamine is 10 $\mu g/m^3$ based on an annual 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 complete reference check was conducted for 5-Bp-bisenamine, but only limited information was available. Upjohn provided an in-house oral LD₅₀ study for 5-Bp-bisenamine. Four male albino rats were given a single oral dose of 3000 mg/kg body weight of 5-Bp-bisenamine suspended in a 0.25% methylcellulose solution. No compound related effects were observed immediately or for 14 days post dosing. The rats were sacrificed at the termination of the study and no gross lesions were observed at necropsy. Although there were no deaths from compound administration at 3000 mg/kg, this value will be used as a surrogate to calculate an ITSL.

The ITSL was derived as follows:

The LD_{50} for this study was determined to be 3000 mg/kg.

The ITSL was derived as follows:

 $LD_{50} = 3000 \text{ mg/kg}$

ITSL =
$$\frac{1}{500}$$
 x $\frac{1}{40}$ x $\frac{1}{100}$ x $\frac{3000}{0.167 \times 0.900}$ = 0.0998 mg/kg

0.0998 mg/kg x 1000 = 10 μ g/m³ based on annual averaging.

The ITSL for 5-BP-bisenamine = 10 $\mu g/m^3$ based on annual averaging.

MB:ma