

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

November 5, 1993

TO: File for BENZHYDROL (CAS # 91-01-0)  
FROM: George Eurich  
SUBJECT: Screening Level for Benzhydrol

The ITSL for Benzhydrol has been set at 16 ug/m<sup>3</sup> based on annual average time.

A search of the following data bases provided one published rat oral LD50 of 5000 mg/kg (Updyke, 1979).

RTECS	NIOSH REL
IRIS	NTP MANAGEMENT STATUS REPORT
EPB LIBRARY	IARC MONOGRAPHS
ACGIH LIBRARY	EPB CHEMICAL CRITERIA DATABASE
HEAST	CAS ONLINE SEARCH (1967-1993)
NLM SEARCH (1981-1993)	

There were no studies or data available on other specific toxic effects. No details of the cited study were available, therefore, default values for body weight and inhalation rate were used. The ITSL was determined from the oral LD50 of 5000 mg/kg according to Rule 232 (1) (h) as follows:

$$\text{ITSL} = \frac{1}{500} \times \frac{1}{40} \times \frac{1}{100} \times \frac{5000\text{mg/kg} \times 0.422 \text{ kg}}{0.167 \times 0.393 \text{ m}^3} = 16 \text{ ug/m}^3$$

Based on annual averaging time.

References:

Updyke, D.L.J. (1979). Fragrance raw materials monographs. Food and Cosmetics Toxicology. 17:713.

GE:ma