

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

March 4, 1994

TO: File for Sec-Butylbenzene (CAS # 135-98-8)
FROM: George Eurich
SUBJECT: Screening level for sec-butylbenzene

The ITSL for sec-butylbenzene is set at 6.4 ug/m³ based on annual average time.

The following databases were checked for information on this compound:

RTECS	NIOSH
IRIS	NTP MANAGEMENT STATUS REPORT
EPB LIBRARY	IARC MONOGRAPHS
ACGIH	EPB CHEMICAL CRITERIA DATABASE
HEAST	CAS ONLINE
NLM	

The only information found on this compound came from a Dow Chemical in-house range finding study. The study said that a 2g/kg oral dose (rat) caused very slight initial weight loss. None of the four study animals died. This dose will be used as a surrogate oral LD50 in calculating the ITSL.

$$\text{ITSL} = \frac{2000\text{mg/kg}}{2,000,000 \times .167 \times .931} = 6.4 \text{ ug/m}^3 \text{ annual average.}$$

The study also noted a 7 hour exposure of rats to 3400 ppm sec-butylbenzene in which no rats died (0/3). Because of the low number of animals in both studies, the more conservative LD50 was used in determining the ITSL.

GE:ma

10-17-2008
The number of significant figures for this ITSL is being adjusted to one. The ITSL should be 6 ug/m³ not 6.4 ug/m³.