

74I-0794-001195 #100984 (1)

EXXON CHEMICAL AMERICAS



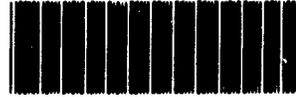
P.O. Box 3272, Houston, Texas 77001

74I-94-001195
INIT 07/14/94

ENVIRONMENTAL AFFAIRS DEPARTMENT

August 30, 1984

JOHN A. MOROVITZ
Manager



84940000260

⇒ Will Perry 9/5/84

Executive Secretary (TS-792)
Interagency Testing Committee
401 M St., SW
Washington, D. C. 20460

Contains No CBI

Dear Sir:

In your July 23, 1984 letter, you solicited information on Cyclohexane (CASRN 110-82-7) for use by the ITC in developing recommendations for testing. Following is limited information which we are furnishing you.

Exxon Chemical Americas no longer is a manufacturer or supplier of cyclohexane. We discontinued that product in 1982.

The enclosed health effects summary was prepared for cyclohexane in 1979, however, we have not developed any other information on this substance since that time.

Very truly yours,

H. L. Hunter, Jr.

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HLH:skm
Attachment

EAA35

3. Cyclohexane

1. Primary routes of exposure: Inhalation and skin.
2. Principal toxic effects in man:
 - (a) Irritation to the eyes and mucous membranes and possibly the skin.
 - (b) CNS depression - at high exposure levels, narcosis may occur.
3. Toxic effects in animals: liver and kidney injury - this was observed in rabbits in a sub-chronic inhalation study employing high exposure levels (greater than 750 ppm).
4. Data gaps:
 - (a) reproductive/teratogenicity - No studies were found in the literature.
 - (b) carcinogenicity - No definitive data were available to assess this parameter.
 - (c) mutagenicity - There is limited data on this chemical. It was non-mutagenic in a microbial assay (Ames test with and without activation).
 - (d) neurotoxicity - It is suspect in producing peripheral neuropathy in man.
5. Regulatory climate: The present ACGIH (1978) TLV is 300 ppm (TWA). This level represents the level which may cause irritation to the eyes and mucous membranes. No effort is underway to change this TLV.
6. Existing/planned research: None found.
7. Summary: Under normal conditions of use, cyclohexane presents little toxic hazard. With the exception of CNS effects, it is generally not a systemic toxin but it may produce local effects (i.e. irritation to the eyes and mucous membranes). Unlike benzene, it has not produced hemopoietic effects. Consequently, cyclohexane has been considered as a substitute solvent for the myelotoxic chemical, benzene. In view of the low chemical reactivity of cyclohexane, one might predict cyclohexane, in the absence of biological data, to pose little concern regarding mutagenicity, carcinogenicity, or teratogenicity.

MSL/SL
7/18/79



CERTIFICATE OF AUTHENTICITY

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