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THE DOW CHEMICAL COMPANY

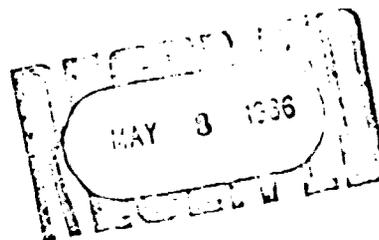
MIDLAND, MICHIGAN 48674

April 10, 1986
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Document Control Officer
U.S. Environmental Protection Agency
TSCA-8D1
P.O. Box 2060
Rockville, MD 20852



RE: OPTS-84020A

Dear Sir or Madam:

As required by 40 CFR 716 as amended, effective March 7, 1986, we herewith submit copies of reports which meet the requirements of the referenced rule as Health and Safety Studies.

The reports have been separated into two categories for your convenience. Enclosed are one set each of public file copies and those that contain confidential business information (CBI). The CBI copies are enclosed in the inner envelope along with the Dow confidential information claim.

Each report is marked with an identifying number at the top of the first page of the report, e.g., D1923. Use of this identification number in future correspondence regarding this submission will facilitate handling of questions.

Many of the submitted reports contain information which is not relevant to Health or Safety Studies of listed chemicals, e.g., references to unlisted chemicals, marketing or process data, account numbers, internal document identification codes or distribution lists. Such information has been deleted from all copies submitted.

The index required by 40 CFR 716.6(b) is enclosed. It lists the Dow identification number and title of each report submitted in CAS number order.

Very truly yours,

R. L. Hagerman
Research Associate
Regulatory and Legislative Issues
Health and Environmental Sciences
1803 Building
(517) 636-6855

lkr

enclosures

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Biochemical Research Laboratory
THE DOW CHEMICAL COMPANY

Company Stamp

Rec'd

K-2512-(2)

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Animal
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Subject TOXICITY OF HEXACHLOROPROPENE

Rec'd 3-4-47
File'd 4-10-1947
Work By E.M. Adams
L.F. Key

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Check

E.M. Adams
4-11-47

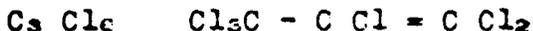
Rec'd by *L.F. Key*
4-11-47

PROBLEM

A preliminary toxicity check was requested by the Great Western Division.

MATERIAL

Hexachloropropene



For the acute oral studies, a sample supplied by the Great Western Division, bearing the reference number 598-S was used. This sample was designated as K2512-3 by the Biochemical Research Laboratory.

Earlier work on skin action was done with a sample supplied by the Organic Laboratory in 1937.

EXPERIMENTAL

By giving single oral doses to rats as a 5% solution in olive oil, it was found that all animals died that received 1.0 gm/kg. or higher, while those receiving 0.3 gm/kg and less survived.

Local applications to the ears and abdominal skin of rabbits demonstrated that marked irritation follows contacts of 30 minutes or more, while more extended, or repeated, applications are followed by necrotic changes.

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In both the rabbit and guinea pig, toxic absorption through the skin took place. In the latter case, exposure for 2 hours to 0.6 cc/kg. was lethal, whereas 0.2 cc/kg. permitted survival.

CONCLUSIONS

The systemic toxicity, as revealed by the administration of single oral doses, is only moderate, and suggests no serious hazard. In view, however, of the irritating effect on the skin and particularly the ready absorption of lethal quantities, great care should be exercised to avoid skin contacts. Until data are available on vapor toxicity, it should be assumed that such exposures are hazardous.

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CERTIFICATE OF AUTHENTICITY

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