

Microfiche No. (7) •	OTS 0206723		1	No. of Pages	2
Doc I.D.	878214940	3	Old Doc I.D.	8DS	4
Case No.(s)	OTS 84003A II				5
Date Produced (6)	6	Date Rec'd (6)	7	Conf. Code •	8
	071656		020785	N	
Check One:	<input type="checkbox"/> Publication <input type="checkbox"/> Internally Generated <input checked="" type="checkbox"/> Externally Generated				
Pub/Journal Name					9
					9
Author(s)					10
Organ. Name	DOW CHEM CO				11
Dept/Div					12
P.O. Box	13	Street No./Name	2020 WILLARD H DOW CTR		14
City	MIDLAND	15	State	MI	16
			Zip	48640	17
			Country		18
MID No. (7)		19	D & B NO. (11)		20
Contractor					21
Doc Type	• RI • UP • HEADS 8.D. SY HS FN				22
Doc Title	RESULTS OF RANGE FINDING TOXICOLOGICAL TESTS ON OCTAMETHYL CYCLOTETRASILOXANE WITH COVER LETTER				23
Chemical Name (300 per name)	25		CAS No. (10)	24	
OCTAMETHYLCYCLOTETRASILOXANE			556-67-2		

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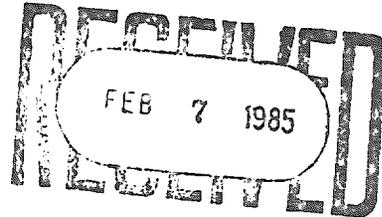


THE DOW CHEMICAL COMPANY

February 6, 1985

MIDLAND, MICHIGAN 48640

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



Re: OPTS-84011

Dear Sir or Madam:

As required by 40 CFR 716, as amended effective December 28, 1984, we herewith submit copies of reports of seven health and safety studies.

The reports are separated into two packages for your convenience.

Package 1. One report which contains Confidential Business Information

Package 2. One report from which Confidential Business Information has been deleted and six reports which contain no Confidential Business Information.

Each report is marked with an identifying number at the top of the first page of the report, e.g., D-1565. Use of this identification number in future correspondence regarding this submission will facilitate handling of questions.

These reports contain some 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.

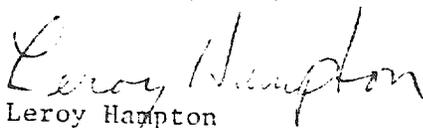
Quality
Performance
Means More At Dow

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Document Control Officer
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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,



Leroy Hampton
Research Associate
Regulatory and Legislative Issues
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rt

Enclosure

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D-001565

Biochemical Research Department

The Dow Chemical Company

RESULTS OF RANGE FINDING TOXICOLOGICAL TESTS ON OCTAMETHYL CYCLOTETRASILOXANE

File
Chg.
Rept. By M. A. Wolf

Signed -Mark A. Wolf- Checked DDM^c Collier
Date July 16, 1956 Date July 16, 1956

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THE DOW CHEMICAL COMPANY

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BIOCHEMICAL RESEARCH DEPARTMENT
JUL 16 1956



THE DOW CHEMICAL COMPANY

MIDLAND MICHIGAN

July 13, 1956

DISTRIBUTION LIST DELETED.

Dear

**SUBJECT: THE RESULTS OF RANGE FINDING TOXICOLOGICAL TESTS
ON OCTANETHYL CYCLOTETRASILOXANE**

Range finding tests have been completed on the sample of octylmethyl cyclotetrasiloxane submitted to us on January 9, 1956 under the order number of 70776. It is our understanding that this material appears in several of the Dow Corning processes.

CONCLUSIONS

Octanethyl cyclotetrasiloxane has a low acute oral toxicity. It is very slightly irritating to the eye and causes essentially no irritation to the skin upon repeated prolonged contact. The vapor of this material at room temperature, or when generated at 100°C., was without appreciable effects upon laboratory animals.

It is suggested on the basis of this toxicological work that safety glasses be worn to protect the eyes. No special precautions are believed necessary in regard to skin contact. The material should present no problem from a single exposure to vapor or fumes at room temperature or when heated (100°C.).

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These conclusions are based upon range finding toxicological tests and are limited to precautions for industrial handling of this material. A summary of the toxicological data together with our interpretation of the hazards presented and the precautions necessary for safe handling follows.

SAMPLE INFORMATION

Name: Octamethyl cyclotetrasiloxane

Source:

Reference: 1-6-56

Sample Number: 1

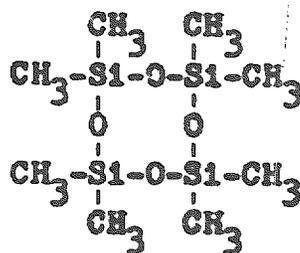
Date Request Received: 1-9-56

Physical State: Water clear liquid

Soluble: Corn oil

Molecular Formula: $C_8H_{24}O_4Si_4$

Structural Formula:



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SUMMARY OF RANGE FINDING TOXICOLOGICAL DATAAcute Oral Toxicity

<u>Animal</u>	<u>Preparation Fed</u>	<u>Dose (g./kg.)</u>	<u>No. Died No. Fed</u>	<u>Response-Remarks</u>
Rat	10% in corn oil	1.0	0/2	Very slight initial weight loss and slight liver pathology noted.
Rat	10% in corn oil	2.0	0/2	Slight initial weight loss and moderate liver pathology noted.

Eye Contact - Rabbit

<u>Material</u>	<u>Treatment</u>	<u>Response-Remarks</u>
100%	Unwashed	Slight conjunctival irritation, no corneal injury, completely healed in 24 hours.
100%	Washed with water	Slight conjunctival irritation, no corneal injury, completely healed in 24 hours.

Skin Contact

<u>Material</u>	<u>Condition of Skin</u>	<u>No. of Appl.</u>	<u>Site</u>	<u>Response-Remarks</u>
100%	Intact	10	Ear	No response.
100%	Intact	10	Belly	Essentially no response.
100%	Abraded	3	Belly	Very slight to slight irritation, which decreases rapidly. Healed well.

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Skin Absorption

There is no indication from the skin irritation tests conducted, that this material is absorbed through the skin in toxic amounts.

Inhalation (Saturated Atmosphere) Roughly 200 and 1,000 ppm depending upon the temperature

<u>Animal</u>	<u>Bath Temp.</u>	<u>Hours Exposed</u>	<u>No. Died No. Treated</u>	<u>Response-Remarks</u>
Rat	23°C.	7	0/3	Very slight initial weight loss and moderate liver pathology noted.
Rat	100°C.	7	0/3	Very slight initial weight loss noted. Some fog was generated during this test.

INGESTION

This material has a low acute oral toxicity. There is no problem from ingestion incidental to the handling and use of this substance. If large quantities are swallowed, accidentally or willfully, some injury may result; the likelihood of serious injury is remote.

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EYE CONTACT

This material has a very slight effect upon the eye. Contact may be painful and cause transient irritation of the conjunctival membranes. It seems advisable to prevent contamination of the eyes simply to avoid the discomfort which may result. Safety glasses should provide satisfactory protection. If the eyes are contaminated, they should be flushed immediately with copious amounts of flowing water. Medical attention should be obtained if irritation or injury persists or develops after washing of the eyes.

SKIN CONTACT - IRRITATION

This material has essentially no effect on intact and abraded skin on repeated prolonged contact. It should produce no significant irritation. Reasonable care and cleanliness should avert irritation.

SKIN CONTACT - ABSORPTION

This material is not absorbed through the skin in acutely toxic amounts.

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July 13, 1956

INHALATION

This material should present no problem from a single exposure to the vapor or fumes at room temperature or when the material is heated (100°C.).

I hope this information will prove adequate for your purposes, if there are any further questions, please let me know.

Yours very truly,

-Mark A. Wolf-

Mark A. Wolf
Biochemical Research Department
634 Building

MAN/jum

cc: