

CODING FORM FOR SRC INDEXING

REVISED 10/15/86

Microfiche No.			QTS0521124		
[Hatched]					
New Doc I.D.		Old Doc I.D.			
86-890000616					
[Hatched]					
Date Produced		Date Received		TSCA section	
5/16/77		5/24/77		8D	
[Hatched]					
Submitting Organization			SHERWIN WILLIAMS CO		
[Hatched]					
Contractor			HUNTINGDON RESEARCH CTR		
[Hatched]					
Document Title					
ACUTE ORAL LD50 IN THE RATS OF COBRATEC-11-35-1, 300 GRAMS SAMPLE 3079 WITH ATTACHMENTS AND COVER LETTER DATED 061289					
[Hatched]					
Chemical Category			POLYTRIAZOLE (29385-43-1)		



CONTAINS NO CBI

86-890000616

The Sherwin-Williams Company
101 Prospect Avenue, N.W.
Cleveland, Ohio 44115-1075

June 12, 1989

591
~~86-890000595~~
THRU
~~86-890000626~~

Document Processing Center (Room L-100)
Office of Toxic Substances (TS-790)
Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

ATTN: 8(d) Health and Safety Reporting Rule
(Notification/Reporting)

Dear Sir or Madam:

Re: 1,2,3-Benzotriazole - 95-14-7 &
Tolyltriazole - 29365-43-1

During the ten-year period prior to April 13, 1989, the Sherwin-Williams Company manufactured the subject chemicals. These chemicals were added to 40 CFR 716.120 by publication in the Federal Register of February 28, 1989. The Sherwin-Williams's Chemicals Division manufactured these chemicals at its Cincinnati site. This product line and facility was sold to the PMC Specialties Group, Inc., effective July 1, 1985. Therefore, Sherwin-Williams is not subject to reporting under the Preliminary Assessment Information Rule, 40 CFR 712.30.

In compliance with 40 CFR 716.30, Judith A. Tins, Administrator, Product Safety, Sherwin-Williams Company, 101 Prospect Avenue, N.W., Cleveland, OH 44115, (216) 566-2919 has performed a search of the Sherwin-Williams files for health and safety studies on these two chemicals. She is the person who has responsibility for compliance with the Toxic Substances Control Act (TSCA) and maintains this type of information.

We are enclosing copies of the applicable studies on the above referenced chemicals. The specific chemical tested is indicated on the face of each study.

For reference:

- BT is benzotriazole
- BT-D is an unknown grade of benzotriazole
- Cobratec 99 is benzotriazole
- TT is tolyltriazole
- Cobratec TT-100 is tolyltriazole
- Cobratec TT-50-S is a 50% solution in water of the sodium salt of tolyltriazole
- Cobratec TT-35-I is a 35% solution of tolyltriazole in isopropanol.



CONTAINS NO CB!

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US EPA
401 M Street, S.W.
Washington, D.C. 20460

-2-

June 12, 1989

All unpublished studies that are known to Sherwin-Williams are in our possession, so we are not submitting any lists of studies as per 716.35, but are submitting copies of the actual studies. We have included a copy of a technical bulletin indicating physical and chemical properties of these two chemicals. We do not have copies of the tests to determine these properties.

I understand that this submission constitutes proper compliance with the 8(d) notice. If you have any questions about the enclosed materials, please contact the technical contact, Ms. Tins, at (216) 566-2919.

Submitted by:

John J. Gerulis, Director
Environmental, Health
and Regulatory Services
The Sherwin-Williams Company
101 Prospect Ave. N.W.
Cleveland, OH 44115-1075
(216) 566-2239

JJG/ct

Attach.

cc: J. A. Tins

CONTAINS NO CBI

~~CONFIDENTIAL~~

MS

XIN TT

HRC #N 774-054

RECEIVED

MAY 24 1977

E. D. C.

Tolyltriazole
29385-43-1

ACUTE ORAL LD₅₀

IN THE RAT OF

COBRATEC-TT-357, 200 GRAMS

SAMPLE 3079

EPA-OTS



000657916Y

86-890000616

The Sherwin Williams Company
Chemicals Division-Toledo Laboratory
1310 Expressway Drive
Toledo, Ohio 43608

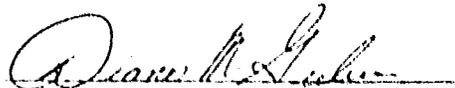
Huntingdon Research Center
216 Congers Road
New City, New York 10956

SUMMARY

Cobratec-TT-35-I, 200 Grams, Sample 3079 was evaluated for its oral LD₅₀ in the rat. Dose levels of 6320, 5020, 3980 and 3550 mg/kg were employed.

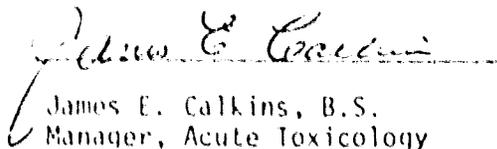
The LD₅₀ is calculated at 4390 mg/kg with 95% confidence limits of 3923-4912 mg/kg of body weight.

Laboratory Technician:



Diane M. Guber, A.A.S.
Senior Laboratory Technician

Principal Investigator:



James E. Calkins, B.S.
Manager, Acute Toxicology

Approved By:



Charles O. Ward, Ph.D.
Director, Toxicology

Date Reported:

May 16, 1977

Laboratory Notebook:

1-102, Vol. II, page:62

INTRODUCTION

Cobratec-TT-35-I, 200 Grams, Sample #3079 was evaluated for its acute oral LD₅₀ in rats.

COMPOUND

Compound Name: Cobratec-TT-35-I, 200 Grams, Sample #3079
Client: Sherwin Williams Company
Date Received: April 21, 1977
Compound Appearance: Clear yellow liquid
Compound Preparation: Dosed as received

METHODOLOGY

Animal Management: TAC: SD/N BR rats weighing 100-125 grams were obtained from Taconic Farms, Inc.. The animals were housed up to five per cage and fed Purina Laboratory diet and water *ad libitum*.

Range Finding: Following a one weeks acclimation to laboratory conditions, a series of range finding studies was conducted at dose levels of: 7950, 5010, and 1260 mg/kg.

The rats were fasted approximately sixteen hours prior to receiving a single gavage of the test material. Dose range animals were observed up to 72 hours after dosing.

Main Study: Based on the survival pattern in the range finding study, 5 male and 5 female rats were fasted for sixteen hours and gavaged at the following levels: 6320, 5020, 3980 and 3550 mg/kg.

Animals were observed for reactions at 1, 2 and 4 hours after dosing and then daily for 14 days. Body weights were recorded at dosing and at termination. Rats dying or sacrificed were subjected to a gross examination of the viscera. The oral LD₅₀ was calculated according to the method of Litchfield, J.T. Jr., and Wilcoxon, F., "A Simplified Method of Evaluating Dose-Effect Experiments", *L. Pharm. & Exp. Ther.*, Vol. 96-99, (1949).

RESULTS

RANGE FINDING:

<u>Mortality:</u>	<u>Dose Level mg/kg</u>	<u>No. Dead/No. Dosed</u>
	7950	2/2
	5010	1/2
	1260	0/2

MAIN STUDY:

<u>Mortality:</u>	<u>Dose Level mg/kg</u>	<u>No. Dead/No. Dosed</u>		
		<u>Male</u>	<u>Female</u>	<u>Total</u>
	6320	5/5	5/5	10/10
	5020	3/5	4/5	7/10
	3980	2/5	2/5	4/10
	3550	0/5	1/5	1/10

BODY WEIGHT:

Surviving animals gained weight at all levels.

CLINICAL SIGNS:

Immediately after dosing, lethargy and prostration was noted in a dose related manner.

Lethargy and prostration generally persisted until death.

OBSERVATIONS AT NECROPSY: Clear brownish-yellow fluid was observed in the gastrointestinal tract of those animals found dead.

Upon necropsy, at day 14, no gross abnormalities were observed in surviving animals.

TABLE I

INDIVIDUAL BODY WEIGHT IN GRAMS OF
SPRAGUE-DAWLEY RATS DOSED AT: 6320 mg/kg
WITH : Cobratec-TT-35-I, 200 Grams, Sample #3079

ANIMAL NO.	SEX	BODY WEIGHT IN GRAMS	
		DAY 0	DAY 14
1	M	140	FD 8 hrs.
2	M	138	FD 8 hrs.
3	M	142	FD 8 hrs.
4	M	126	FD 8 hrs.
5	M	129	Fd 8 hrs.
6	F	120	FD Day 1
7	F	130	FD Day 1
8	F	118	FD Day 1
9	F	126	FD Day 1
10	F	125	FD Day 1
	MEAN:	129	-

*FD+ Found Dead

TABLE I

INDIVIDUAL BODY WEIGHT IN GRAMS OF
SPRAGUE-DAWLEY RATS DOSED AT: 5020 mg/kg
WITH: Cobratec-TT-35-I, 200 Grams, Sample #3079

<u>ANIMAL NO.</u>	<u>SEX</u>	<u>BODY WEIGHT IN GRAMS</u> <u>DAY 0</u>	<u>DAY 14</u>
1	M	129	FD 8 hrs.
2	M	138	250
3	M	140	230
4	M	135	FD 8 hrs.
5	M	136	FD 8 hrs.
6	F	120	FD Day 1
7	F	122	FD Day 1
8	F	131	FD Day 1
9	F	133	195
10	F	119	FD Day 2
	MEAN:	130	225

*FD= Found Dead

TABLE I

INDIVIDUAL BODY WEIGHT IN GRAMS OF
SPRAGUE-DAWLEY RATS DOSED AT: 3980 mg/kg
WITH: Cobratec-TT-35-I, 200 Grams, Sample #3079

<u>ANIMAL NO.</u>	<u>SEX</u>	<u>BODY WEIGHT IN GRAMS</u>	
		<u>DAY 0</u>	<u>DAY 14</u>
1	M	145	FD Day 1
2	M	136	215
3	M	138	FD Day 1
4	M	129	230
5	M	127	210
6	F	130	209
7	F	122	FD Day 2
8	F	133	190
9	F	134	185
10	F	128	FD Day 2
	MEAN:	132	206

*FD= Found Dead

TABLE I

INDIVIDUAL BODY WEIGHT IN GRAMS OF
SPRAGUE-DAWLEY RATS DOSED AT: 3550 mg/kg
WITH : Cobratec-TT-35-I, 200 Grams, Sample 3079

<u>ANIMAL NO.</u>	<u>SEX</u>	<u>BODY WEIGHT IN GRAMS</u>	
		<u>DAY 0</u>	<u>DAY 14</u>
1	M	136	240
2	M	140	236
3	M	142	210
4	M	138	216
5	M	129	215
6	F	133	196
7	F	131	185
8	F	126	FD Day 2
9	F	130	190
10	F	135	208
	MEAN:	134	210

FD Found Dead

TABLE II
 OBSERVATION SUMMARY OF SPRAGUE-DAWLEY RATS
 TREATED WITH: Cobratic-TI-35-I, 200 Grams, Sample #3079

Dose (mc/kg)	IMMEDIATE - 4 HR.	DAILY	AT AUTOPSY
6320	All animals appeared prostrate	Animals 1-5 FD 8 hours Animals 6-10 FD Day 1 All others appeared normal	Brownish-yellow fluid found throughout the gastrointestinal tract. Survivors- No gross pathology noted.
5920	All animals appeared lethargic	Animals 1, 4 and 5 FD 8 hours Animals 6, 7 and 8 FD Day 1 Animals 10 FD Day 2 All others appeared normal	Brownish-yellow fluid found throughout the gastrointestinal tract. Survivors-No gross pathology noted.
3980	Animals 1, 3, 7, 10 appeared lethargic. All others appeared normal	Animals land 3 FD Day 1 Animals 7 and 10 FD Day 2 All others appeared normal	Brownish-yellow fluid found throughout the gastrointestinal tract. Survivors-No gross pathology noted.
3550	All animals appeared normal	Animal 8 FD Day 2 All others appeared normal	Brownish-yellow fluid found throughout the gastrointestinal tract. Survivors-No gross pathology noted.

CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY that the microimages appearing on this microfiche are accurate and complete reproductions of the records of U.S. Environmental Protection Agency documents as delivered in the regular course of business for microfilming.

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