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Submitting Organization		
SHERWIN WILLIAMS CO		
Contractor		
HUNTINGDON RESEARCH CTR		
Document Title		
ACUTE DERMAL TOXICITY INVESTIGATION IN RABBITS OF COBRATEC TT-100 (TOLYLTRIAZOLE) SAMPLE NO. 6022 WITH ATTACHMENT AND COVER LETTER DATED 061289 (SANITIZED)		
Chemical Category		
TOLYLTRIAZOLE (29385-43-1)		



CONTAINS NO CBI

86-890000 607

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

June 12, 1989

~~86-890000545~~ 591

THRU

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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 CBI

Document Processing Center (Room L-100)
Office of Toxic Substances (TS-790)
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All unpublished studies that are known to Sherwin-Williams are in our possession, so we are not submitting any lists of studies as per 716.35, but are submitting copies of the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

~~CONFIDENTIAL~~

JTB (J.C.)

725-256

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SHERWIN WILLIAMS CHEMICALS

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ACUTE DERMAL TOXICITY INVESTIGATION

IN RABBITS OF

COBRATEC TT-100 (TOLYLTRIAZOLE) SAMPLE NO. 6022

29385-43-1



000657907Y

86-890000607

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

Francis J. Meyer, Ph.D
Huntingdon Research Center
Post Office Box 6857
Baltimore, Maryland 21204

SUMMARY

A sample of Cobratec TT-100 (Tolyltriazole) Sample No. 6022 was tested for Acute Dermal Toxicity in 10 rabbits at 2000 mg/kg.

According to the code of Federal Regulations, the substance is not toxic.


Francis J. Meyer, Ph.D
Director,
Biomaterials Safety Evaluation

June 29, 1972

mx

Report on Acute Dermal Toxicity Investigation in Rabbits of
Cobratec TT-100 (Tolyltriazole) Sample No. 6022.

A. Experimental Compound:

The substance to be tested was labeled Cobratec TT-100 (Tolyltriazole) Sample No. 6022. The material was light tan granular in nature.

B. Experimental Design:

The material was applied to the clipped skin of 5 female rabbits and to the clipped and abraded skin of 5 female rabbits. The material was administered and allowed to remain in contact with the skin for 24 hours. The trunk of each animal was wrapped with a dam. After 24 hours the dams were removed. The residue was washed off with water. All rabbits were observed for mortality and toxic effects on the day of application and daily thereafter until death occurred or the 14 day observation period ended. The results were as follows:

	<u>Days of Death</u>	
<u>Dose</u> <u>mg/kg</u>		<u>Dead/</u> <u>Total Tested</u>
2000		0/10

TABLE 1

Acute Dermal Toxicity in Rabbits

Sample: Cobratec TT-100

Rabbit No.	Sex	Reaction	DAY													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14
*1004A	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1005A	♀	ERYTHEMA	1	1	1	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1006A	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1007A	♀	ERYTHEMA	1	1	1	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1008A	♀	ERYTHEMA	1	1	1	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
**1009I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1010I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1011I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1012I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1013I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*A=Abraded Skin
 **I=Intact Skin

TABLE II

BODY WEIGHTS (KG)

Dose Level mg/kg	Rabbit No.	Day				
		0	3	7	10	14
2000	1004A	3.0	3.0	3.0	3.0	3.0
	1005A	2.9	3.0	3.0	3.1	3.1
	1006A	2.9	2.9	2.9	2.9	2.9
	1007A	3.0	3.0	2.9	3.0	3.0
	1008A	2.8	2.8	3.0	3.0	3.0
	1009I	3.0	3.0	2.9	2.9	2.9
	1010I	2.9	3.0	3.0	3.1	3.1
	1011I	2.9	2.8	2.9	2.9	2.9
	1012I	2.8	2.8	2.8	2.9	3.0
	1013I	3.0	3.0	3.0	3.1	3.1

APPENDIX 1

<u>Evaluation of skin reaction</u>	<u>Value</u>
Erythema and eschar formation:	
No erythema	0
Very slight erythema (barely perceptible)	1
Well-defined erythema	2
Moderate to severe erythema	3
Severe erythema (beet redness) to slight eschar formation (injuries in depth)	4
Edema formation:	
No edema	0
Very slight edema (barely perceptible)	1
Slight edema (edges of area well defined by definite raising)	2
Moderate edema (raised approximately 1 millimeter)	3
Severe edema (raised more than 1 millimeter and extending beyond the area of exposure)	4

Table I
Acute Dermal Toxicity in Rabbits
Sample: Cobrater TT-100

Skin Reactions

Rabbit No.	Sex	Reaction	DAY													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14
1004 A *	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1005 A	♀	ERYTHEMA	1	1	1	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
1006 A	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
1007 A	♀	ERYTHEMA	1	1	1	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
1008 A	♀	ERYTHEMA	1	1	1	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
1009 I **	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
1010 I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
1011 I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
1012 I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
1013 I	♀	ERYTHEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	
		EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	

* A = Abraded Skin
** I = Intact Skin

TABLE II

BODY WEIGHTS (KG)

Dose Level mg/kg	Rabbit No.	Day				
		0	3	7	10	14
2000	1004 1004 ♀ A	3.0	3.0	3.0	3.0	3.0
	1005 ♀ A	2.9	3.0	3.0	3.1	3.1
	1006 ♀ A	2.9 2.9	2.9	2.9	2.9	2.9
	1007 ♀ A	3.0	3.0	2.9	3.0	3.0
	1008 ♀ A	2.8	2.8	3.0	3.0	3.0
	1010 ♀ I	3.0	3.0	2.9	2.9	2.9
	1011 ¹⁰ ♀ I	2.9	3.0 3.0	3.0	3.1	3.1
	1012 ¹¹ ♀ I	2.9	2.8	2.9	2.9	2.9
	1013 ¹¹ ♀ I	2.8	2.8	2.8	2.9	3.0
	1014 ¹¹ ♀ I	3.0	3.0	3.0	3.1	3.1

CERTIFICATE OF AUTHENTICITY

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