

CODING FORM FOR SRC INDEXING

REVISED 10/15/86

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Date Produced	Date Received	TSCA section
6/12/74	6/13/89	8D
[Hatched]		
Submitting Organization		
SHERWIN WILLIAMS CO		
[Hatched]		
Contractor		
HUNTINGDON RESEARCH CTR		
[Hatched]		
Document Title		
EYE IRRITATION STUDY IN THE RABBIT WITH TOLYLTRIAZOLE (COBRATEC TT-100) SAMPLE NO. 1089 WITH COVER LETTER DATED 061289		
[Hatched]		
Chemical Category		
TOLYLTRIAZOLE (29385-43-1)		



CONTAINS NO CBI

86-890000609

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

6/13/89

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.



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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

CONTAINS NO CBI

~~CONFIDENTIAL~~ MS

745-071

EPA-OTS



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86-890000 609

EYE IRRITATION STUDY IN THE RABBIT

OF

TOLYLTRIAZOLE (SOBRATEC® TT-100)

SAMPLE #1089

29385-43-1

C. J. Korpics, Ph.D.
Product Applications Specialist
Sherwin-Williams
1310 Expressway Drive
Toledo Laboratory
Toledo, Ohio 43608

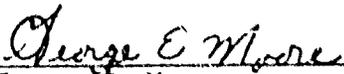
Huntingdon Research Center
Box 527
Brooklandville, Maryland 21022

SUMMARY

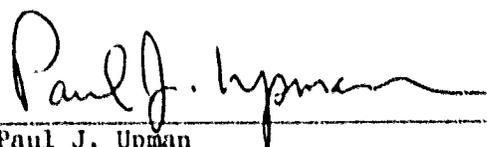
A sample of Tolyltriazole (Cobratec® TT-100) - sample #1089 was tested for ocular irritation in rabbits.

According to the results of this study, Tolyltriazole (Cobratec® TT-100) sample #1089 is considered to be an eye irritant.

Submitted By:


George E. Moore
Supervisor,
Acute Toxicology

Approved By:


Paul J. Upman
Manager,
Toxicology Laboratory
June 12, 1974

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INTRODUCTION

A sample of Tolyltriazole (Cobratec® TT-100) - sample #1089 was evaluated for primary eye irritation.

EXPERIMENTAL PROCEDURE

Six female albino New Zealand rabbits were used. Both eyes of each animal were examined with the aid of an ophthalmoscope before testing. 100 mg of test material was placed in one eye of each animal by gently pulling the lower lid away from the eyeball to form a cup into which the test substance was dropped. The lids were gently held together for one second and the animal released. The other eye, remaining untreated, served as a control.

The eyes were examined and the grade of ocular reaction recorded at 24, 48, 72 hours and 14 days (Table 1). Reading of reactions was facilitated by the use of an ophthalmoscope. After the recording of observations at 24 hours, the eyes were stained with fluorescein and examined with an ultra-violet lamp to detect corneal damage if present.

The reactions were scored from: "Illustrated Guide for Grading Eye Irritation by Hazardous Substances", Section 191.12 of the Federal Hazardous Substances Labeling Act Regulations (Table 2).

RESULTS

The numerical scores awarded to the ocular reactions are listed in Table 1.

: 1 :

RESULTS

Non-irrigated

No. Obs./No. Exposed

Cornea

2/6 - a diffuse area of corneal opacity.

3/6 - discernible translucent areas of opacity, details of iris slightly obscured.

1/6 - no details of iris visible.

6/6 - fluorescein examination positive.

Iris

4/6 - moderate circumcorneal injection.

Conjunctival Redness

4/6 - diffuse crimson red.

2/6 - diffuse beefy red.

Chemosis

1/6 - swelling with partial eversion of lids.

2/6 - swelling with lids about half closed.

3/6 - swelling with lids half closed or greater.

TABLE 1

Numerical scores awarded the ocular reactions elicited by:

Tolyltriazole (Cobratec® TT-100)
Sample #1089

Rabbit No.		Day				Positive (+) Negative (-)	
		1	2	3	14		
1171	Cornea	1	1	1	0	+	
	Iris	0	0	0	0	-	
	Conjunctiva	Redness	1	2	1	0	+
		Chemosis	2	3	3	0	+
	Fluor. Exam	+		-		+	
1172	Cornea	1	1	1	0	+	
	Iris	0	0	0	0	-	
	Conjunctiva	Redness	2	2	2	0	+
		Chemosis	2	2	4	0	+
	Fluor. Exam	+		+	-	+	
1174	Cornea	2	2	2	0	+	
	Iris	1	1	1	0	+	
	Conjunctiva	Redness	1	2	1	0	+
		Chemosis	3	3	3	0	+
	Fluor. Exam	+		+	+	+	
1175	Cornea	3	3	3	*	+	
	Iris	1	1	1		+	
	Conjunctiva	Redness	2	3	2		+
		Chemosis	4	4	4		+
	Fluor. Exam	+		+		+	
1176	Cornea	1	2	2	0	+	
	Iris	1	1	0	0	+	
	Conjunctiva	Redness	2	3	1	0	+
		Chemosis	3	3	2	0	+
	Fluor. Exam	+		-		+	
1177	Cornea	2	2	2	0	+	
	Iris	1	1	1	0	+	
	Conjunctiva	Redness	2	2	3	0	+
		Chemosis	3	3	4	0	+
	Fluor. Exam	+		+	-	+	

* Rabbit died before 14 day reading.

Table 2

GRADES FOR OCULAR LESIONS

From: "Illustrated Guide for Grading Eye Irritation by Hazardous Substances"

U. S. Department of Health, Education and Welfare,
Food and Drug Administration
Washington, D. C. 20204

Cornea

No ulceration or opacity	0
Scattered or diffuse areas of opacity (other than slight dulling of normal luster), details of iris clearly visible.	(1)*
Easily discernible translucent areas, details of iris slightly obscured	2
Nacreous areas, no details of iris visible, size of pupil barely discernible	3
Complete corneal opacity, iris not discernible	4

Iris

Normal	0
Markedly deepened folds, congestion, swelling, moderate circum-corneal injection (any of these or combination of any thereof), iris still reacting to light (sluggish reaction is positive)	(1)*
No reaction to light, hemorrhage, gross destruction (any or all of these)	2

Conjunctivae

Redness (Refers to palpebral and bulbar conjunctivae excluding cornea and iris)

Vessels normal	0
Some vessels definitely injected	1
Diffuse, crimson red, individual vessels not easily discernible	(2)*
Diffuse beefy red	3

Chemosis

No swelling	0
Any swelling above normal (includes nictitating membrane)	1
Obvious swelling with partial eversion of lids	(2)*
Swelling with lids about half closed	3
Swelling with lids half closed to completely closed	4

* Positive reaction

(745-071)

TABLE I

TT 100 #1081

Numerical scores awarded the ocular reactions elicited by same

Shurwin Williams Sample # 1089
Cobratec - TT - 1150

Rabbit No.		DAY			Positive (+) Negative (-)		
		1	2	3	14		
R 1171	Cornea	0	0	0	0	+	
	Iris	0	0	0	0	-	
	Conjunctiva	Redness	1	2	1	0	+
		Chemosis	2	3	3	0	+
	Fluor. Exam	+	-	-	0	+	
1172	Cornea	0	0	0	0	+	
	Iris	0	0	0	0	-	
	Conjunctiva	Redness	2	2	2	0	+
		Chemosis	2	2	4	0	+
	Fluor. Exam	+	+	+	1	+	
R 1173	Cornea	2	2	2	0	+	
	Iris	1	1	1	0	+	
	Conjunctiva	Redness	1	2	1	0	+
		Chemosis	3	3	3	0	+
	Fluor. Exam	+	+	+	+	+	
R 1175	Cornea	3	3	3	*	+	
	Iris	1	1	1		+	
	Conjunctiva	Redness	2	3	2		+
		Chemosis	4	4	4		+
	Fluor. Exam	+	+	+		+	
1176	Cornea	1	2	2	0	+	
	Iris	1	1	0	0	+	
	Conjunctiva	Redness	2	3	1	0	+
		Chemosis	3	3	2	0	+
	Fluor. Exam	+	+	*		+	
R 1177	Cornea	2	2	2	0	+	
	Iris	1	1	1	0	+	
	Conjunctiva	Redness	2	2	3	0	+
		Chemosis	3	3	4	0	+
	Fluor. Exam	+	+	+	1	+	

* Rabbit died before 14 day reading.

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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