8EHQ-0494-12996

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ORIGINAL

ciba

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Document Processing Center (7407)
(Attention: Section 8(e) Coordinator)
Office of Pollution Prevention and Toxics
Environmental Protection Agency
401 M St., SW
Washington, DC 20460

Dear Section 8(e) Coordinator:

Subject: TSCA 8(e) Notice - Chimassorb 81

Ciba-Geigy Corporation (Ciba) claims no information in this letter as Confidential Business Information.

In accordance with EPA's March 16, 1978 policy statement on Section 8(e) reporting under the Toxic Substances Control Act, and EPA's June, 1991 TSCA Section 8(e) Reporting Guide, Ciba wishes to bring to the attention of the Environmental Protection Agency results seen in a sensitization study conducted with Chimassorb 81. Chimassorb 81 is 2-hydroxy-4-n-octoxybenzophenone, having CASRN 1843-05-6. Chimassorb 81 is a light stabilizer used in plastics. This product is being commercialized by Ciba in the United States.

This study was obtained from our parent company, Ciba-Geigy Limited of Basel, Switzerland. A copy of the study, entitled *"Skin-Sensitisation Test in the Guinea Pig Maximisation Test Test No. 914110 TK 10050 (CHIMASSORB 81) Report"*, is enclosed. In this study, 60-65% of the animals were sensitized. Based upon current EPA guidelines it is felt these results warrant reporting under TSCA 8(e).

Ciba will add this information to its Material Safety Data Sheet (MSDS) and label.

Please call the undersigned if you have any questions about this submittal.

Very truly yours,

A. Di Battista

Anthony DiBattista

94 APR 22 AM 8:12
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Enclosure

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Skin Sensitisation Test in the Guinea Pig

Maximisation Test

Test No. 914110

TK 10050 (CHIMASSORB 81)

Report

Study Director:	Dr. med.vet. Ch. Hagemann
Testing Facility:	CIBA-GEIGY Limited Toxicology Services Short-term Toxicology 4332 Stein / Switzerland
Test Guideline:	OECD 406 / 84/449/EEC B.6.
Starting date:	September 10, 1991
Completion date:	December 5, 1991
Sponsor:	CIBA-GEIGY Limited Additives Division 4002 Basel / Switzerland

This report contains: 29 pages

REC'D
OFFICE OF POLLUTION
PREVENTION AND TOXICS
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0.1. Proprietary information

Proprietary information of CIBA-GEIGY Limited.
Not to be disclosed to third parties without previous consent
of CIBA-GEIGY Limited.

0.2. Certification of GLP and verification of the report

(Certification of Good Laboratory Practice and verification of a complete and unaltered copy of the report by the sponsor)

To the best of my knowledge and belief, the statement of compliance with Good Laboratory Practice found on page 4 of this report, and signed by the Study Director is truthful and accurate, and this report as provided by the testing facility is complete and unaltered.

For the Sponsor:

Signature: ..... Date: 16.12.91...

0.3. Statement of compliance with Good Laboratory Practice

To the best of my knowledge and belief this study has been performed in compliance with Good Laboratory Practice (GLP) in Switzerland, Procedures and Principles, March 1986 (Verfahren und Grundsaetze der Guten Laborpraxis (GLP) in der Schweiz), issued by the Swiss Federal Department of the Interior and the Intercantonal Office for the Control of Medicaments. These procedures are in essence consistent with:

- OECD Principles of Good Laboratory Practice (Council Decision 81/30, adopted on May 12, 1981, and the OECD Recommendation 83/95 concerning the 'Mutual Recognition of Compliance with Good Laboratory Practice', adopted on July 26, 1983).
- United States Environmental Protection Agency, Title 40 Code of Federal Regulations Part 160 (FIFRA); Federal Register, August 17, 1989.
- United States Environmental Protection Agency, Title 40 Code of Federal Regulations Part 792 (TSCA); Federal Register, August 17, 1989.
- Japan Ministry of Agriculture, Forestry and Fisheries, NohSan, Notification No. 3850, Agricultural Production Bureau, August 10, 1984.

Study director: Dr. med.vet. Ch. Hagemann

Signature: Christian Hagemann Date: December 5, 1991

0.4. Signatures

This report represents the results of the investigations compiled by the undersigned:

Study director: Dr. med.vet. Ch. Hagemann

Signature: Christian Hagemann ... Date: December 5, 1991

For facility management: Dr. phil.II W. Basler

Signature: W. Basler ..... Date: December 6, 1991

0.5. Reserved page for flagging statements

Quality assurance statement

Test Article:	TK 10050
Study Title:	Skin Sensitisation Test in the Guinea Pig
Test Number:	914110
Study Director:	Dr. med.vet. Ch. Hagemann

I hereby certify that the following Quality Assurance activities were performed:

Inspection dates

Inspections / Audits performed	Inspections / Audits reported to Management
1) 20.09.91	1) 20.09.91
2) 14.10.91	2) 16.10.91
3) 11.11.91	3) 12.11.91
4) 04.12.91 - Final Report Audit	4) 05.12.91

Quality Assurance Inspector:

Signature: D. Kalbsleisch ..... Date: 10.12.91 .....

1. SUMMARY AND CONCLUSION

65 and 60% of the animals were sensitised by TK 10050 under the experimental conditions employed 24 and 48 hours after challenge, respectively.

According to the maximisation grading TK 10050 showed a moderate to strong grade of skin-sensitising (contact allergenic) potential in albino guinea pigs.

2. GENERAL

2.1. Introduction

At the request of the Additives Division of CIBA-GEIGY Limited, a sensitisation test in albino guinea pigs was performed to determine the contact allergenic potency of TK 10050 in albino guinea pigs.

This test was based on the OECD Guideline No. 406, adopted May 12, 1981, by the OECD council, and on Annex V, Part B of Council Directive 79/831/EEC (Commission Directive 84/449/EEC of April 25, 1984).

Experimental starting date:	October 14, 1991
Experimental termination date:	November 14, 1991
Testing facility:	CIBA-GEIGY Limited Toxicology Services Short-term Toxicology 4332 Stein/Switzerland

2.2. Archives

Archives are located at CIBA-GEIGY Limited, Werk Stein, CH-4332 Stein, Switzerland. Raw data, protocol and report will be stored at this location.

2.3. Distribution

Study director (Dr. med.vet. Ch. Hagemann)
Dr. H.J. Weideli (for the sponsor)
Archives
Quality Assurance Unit (Dr. H. Weber)

2.4. Test material

Test article:	TK 10050
Batch No.:	EN 253644.02
Trade name:	CHIMASSORB 81
Purity:	>99.5%
Physical properties:	solid
Storage conditions:	room temperature
Validity:	May, 1995
Test article received:	August 9, 1991

2.5. Auxiliary compounds

- Physiological saline (0.9 %), sterile solution (Hausmann, St. Gallen, Switzerland)
- Bacto Adjuvant, Complete, Freund (Difco Lab. Detroit, Michigan USA)
- Vaseline (white petrolatum) Ph. H. VI (Siegfried AG, Zofingen, Switzerland)
- Oleum arachidis Ph. H. VI (Siegfried AG, Zofingen, Switzerland

2.6. Test System

The albino guinea pig is the recommended species for skin sensitisation studies.

Animal strain:	Pirbright White Strain (Tif: DHP)
Breeder:	CIBA-GEIGY Limited Animal Production 4332 Stein / Switzerland
Date of acclimatisation:	October 9, 1991

2.7. Group Size and Husbandry

The test was performed on 10 male and 10 female guinea pigs in the test group and 5 males and 5 females in the control group, respectively, initially weighing between 351 to 414 g.

The animals were housed individually in Macrolon cages (Type 3), assigned to the different groups by means of random numbers generated by the random number generator, identified by individual ear tags, kept at a constant room temperature of 22±3°C, at a relative humidity of 30 to 70% and a 12 hours light cycle day.

The animals received ad libitum standard guinea pig pellets - NAFAG No. 845, Gossau SG and fresh water.

All batches of the diet are assayed for nutritive ingredients and contamination level by the manufacturer. Analytical results are available at the animal supply office.

The drinking water quality fulfilled the critical parameters in the specifications of the "Schweizerisches Lebensmittelbuch" (Edition 1972). The results of the routine chemical examination of water at source (Grundwasserfassung Stein) as conducted periodically by the water authority (Baudepartement des Kantons Aargau, Abteilung Gewaesserschutz) are available to CIBA-GEIGY Limited, as well as the results of inhouse chemical analysis by the analytical laboratories of the Pharmaceutical Division, CIBA-GEIGY Limited.

2.8. Sensitivity of strain

The sensitivity of the strain is checked every six months with a known sensitiser, such as 2,4-dinitrochlorobenzene, para-phenylene-diamine or potassium-dichromate.

The results of the latest positive control test are presented in Appendix 3 of this report.

3. METHODS

3.1. Reason for selection

The maximisation test has been selected, because it is one of the recommended tests in the OECD guideline 406, adopted May 12, 1981, as well as in Annex V, Part B of Council Directive 79/831/EEC (Commission Directive 84/449/EEC of April 25, 1984), and because the sensitivity of the method is well known. The test has been performed according to the original protocol of Magnusson and Kligman (J. invest. Dermatol. 52, 268-276, 1969; Contact Dermatitis 6, 46-50, 1980).

3.2. Test procedure

3.2.1. Induction procedure (weeks 1 and 2)

The induction was a two-stage operation. First, intradermal injections (into the neck region); second, closed patch exposure over the injection sites one week later.

First inductionweek, intradermal injection

Three pairs of intradermal injections (0.1 ml per injection) were made simultaneously into the shaved neck of the guinea pigs as follows:

- adjuvant/saline mixture 1:1 (v/v)
- test article TK 10050 in Oleum arachidis (w/v)
- test article TK 10050 in the adjuvant saline mixture (w/v)

Second inductionweek, epidermal application

In the second week of induction TK 10050 was incorporated in vaseline (w/w) and applied on a filterpaper patch to the neck of the animals (patch 2x4 cm; approx. 0.4 g paste per patch; occluded administration for 48 hours).

3.2.2. Rest period

During weeks 3 and 4 no treatments were performed.

3.2.3. Challenge (week 5)

The animals were tested on the flank with TK 10050 in vaseline (w/w) and the vehicle alone (patch 2x2 cm; approx. 0.2 g paste per patch; occluded administration for 24 hours).

3.2.4. Control group

A control group of 10 animals (5 m/5 f) was treated with adjuvant and the vehicle during the induction period. During the challenge period the group was treated with the vehicle as well as with the test article to check the maximum subirritant concentration of the test article in adjuvant treated animals.

3.3. Concentrations

3.3.1. Intradermal Induction

The concentration for the intradermal injections was selected on account of the solubility of the test article in standard vehicles and its local and systemic tolerability. The following concentrations of test article have been prepared for intradermal injection:

1 and 5 % in Oleum arachidis.

Since 5% TK 10050 in Oleum arachidis could be injected and was well tolerated, this concentration was used for the intradermal induction.

3.3.2. Epidermal Applications (induction and challenge)

The concentrations for the epidermal applications were selected on account of the primary irritation potential of the test article. The following concentrations of TK 10050 have been examined on separate animals for the determination of the maximum subirritant concentration:

1, 5, 10, and 30% in vaseline.

The tested concentrations did not induce erythema reactions. The following concentrations were used:

Epidermal induction

Concentration of test article: 30%
Vehicle: vaseline

Epidermal challenge

Because a higher concentration may lead to nonspecific reactions in adjuvant treated animals (Magnusson B., Contact Dermatitis 6, 46-50, 1980), the following concentration was chosen as subirritant for the challenge application:

Concentration of test article: 20%
Vehicle: vaseline

3.4. Observations and records

Induction reactions

After the intradermal and the epidermal induction application irritant reactions are normally induced by the adjuvant, the high test article concentration, or the sodium lauryl sulfate pretreatment. Because most of the reactions are treatment related and not compound related, the reactions are only described in special cases in the section of results.

Challenge reactions

Twenty four and forty eight hours after removing the dressings, the challenge reactions were graded according to the Draize scoring scale (Appendix 1).

General

The sensitising potential of TK 10050 was classified according to the grading of Magnusson and Kligman (Appendix 2).

The body weight was recorded at start and end of the test.

4. RESULTS

The incidence of positive animals per group and the individual challenge reactions are listed in Tables 1, 2, and 3.

The individual animal weights at start and end of the test are listed in Table 4.

Under the experimental conditions employed, 65 and 60% of the animals of the test group showed skin reactions 24 and 48 hours after removing the dressings, respectively.

TK 10050 is, therefore, classified as a moderate to strong sensitiser in albino guinea pigs according to the grading of Magnusson and Kligman.

5. TABLES

TABLE 1

Number of positive animals per group after occlusive epidermal application

Control group:

	after 24 hours	after 48 hours
vehicle control	0/10	0/10
test article	0/10	0/10

Test group:

	after 24 hours	after 48 hours
vehicle control	0/20	0/20
test article	13/20	12/20

TABLE 2

Challenge reactions after epidermal application
(CONTROL GROUP)

DRAIZE Score 24 hours after removal of the dressing

Vehicle control

Male animals	111	112	113	114	115
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	116	117	118	119	120
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Test article control

Male animals	111	112	113	114	115
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	116	117	118	119	120
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

DRAIZE Score 48 hours after removal of the dressing

Vehicle control

Male animals	111	112	113	114	115
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	116	117	118	119	120
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Test article control

Male animals	111	112	113	114	115
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	116	117	118	119	120
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

TABLE 3

Challenge reactions after epidermal application
(TEST GROUP)

DRAIZE Score 24 hours after removal of the dressing

Vehicle control

Male animals	91	92	93	94	95	96	97	98	99	100
Erythema score:	0	0	0	0	0	0	0	0	0	0
Edema score:	0	0	0	0	0	0	0	0	0	0

Female animals	101	102	103	104	105	106	107	108	109	110
Erythema score:	0	0	0	0	0	0	0	0	0	0
Edema score:	0	0	0	0	0	0	0	0	0	0

Test article

Male animals	91	92	93	94	95	96	97	98	99	100
Erythema score:	0	1	1	1	0	2	0	1	1	1
Edema score:	0	0	1	0	0	0	0	0	0	0

Female animals	101	102	103	104	105	106	107	108	109	110
Erythema score:	0	0	1	1	1	1	0	1	1	0
Edema score:	0	0	0	0	0	0	0	0	0	0

DRAIZE Score 48 hours after removal of the dressing

Vehicle control

Male animals	91	92	93	94	95	96	97	98	99	100
Erythema score:	0	0	0	0	0	0	0	0	0	0
Edema score:	0	0	0	0	0	0	0	0	0	0

Female animals	101	102	103	104	105	106	107	108	109	110
Erythema score:	0	0	0	0	0	0	0	0	0	0
Edema score:	0	0	0	0	0	0	0	0	0	0

Test article

Male animals	91	92	93	94	95	96	97	98	99	100
Erythema score:	0	0	0	1	0	1	0	1	1	1
Edema score:	0	0	0	0	0	0	0	0	0	0

Female animals	101	102	103	104	105	106	107	108	109	110
Erythema score:	0	0	1	1	1	1	0	1	1	1
Edema score:	0	0	0	0	0	0	0	0	0	0

TABLE 4

Individual animal bodyweights in g - males

CONTROL GROUP Animal No.	weight at start	weight at end	TEST GROUP Animal No.	weight at start	weight at end
111	378	584	91	359	606
112	374	603	92	399	650
113	385	657	93	389	642
114	371	597	94	370	646
115	396	652	95	410	647
			96	386	598
			97	413	660
			98	368	633
			99	354	615
			100	375	653
Mean	381	619		382	629
Std.Dev.	10.0	33.5		20.5	22.0

Individual animal bodyweights in g - females

CONTROL GROUP Animal No.	weight at start	weight at end	TEST GROUP Animal No.	weight at start	weight at end
116	351	505	101	383	560
117	379	534	102	377	495
118	376	546	103	414	583
119	374	536	104	386	551
120	353	528	105	377	517
			106	383	568
			107	367	537
			108	396	558
			109	395	535
			110	394	576
Mean	367	530		387	548
Std.Dev.	13.5	15.3		13.1	27.3

6. APPENDICES

APPENDIX 1

Evaluation of skin reactions

Evaluation of skin reactions according to Draize in Appraisal of the Safety of chemicals in Foods, Drugs and Cosmetics (1959), The US Association of Food and Drug Officials (AFDO).

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 mm).....3
Severe edema (raised more than 1 mm and extending beyond area of exposure).....4

APPENDIX 2

Maximisation grading

Sensitisation rate (%)	Grade	Classification
0 - 8	I	weak
9 - 28	II	mild
29 - 64	III	moderate
65 - 80	IV	strong
81 - 100	V	extreme

APPENDIX 3

Reference values with 1-Chlor-2,4-dinitrobenzol

Test No. 910006

Experimental starting date: June 17, 1991
Experimental completion date: July 18, 1991

The following concentrations of the reference compound and vehicles were used:

Intradermal induction

Concentration of compound: 0.1%
Vehicle: Oleum arachidis

Epidermal induction

Concentration of compound: 1.0%
Vehicle: vaseline

Epidermal challenge

Concentration of compound: 0.1%
Vehicle: vaseline

Number of positive animals per group after occlusive epidermal application

Control group:

	after 24 hours	after 48 hours
vehicle control	0/10	0/10
test article	0/10	0/10

Test group:

	after 24 hours	after 48 hours
vehicle control	0/10	0/10
test article	10/10	10/10

Challenge reactions after epidermal application (CONTROL GROUP)

DRAIZE Score 24 hours after removal of the dressing

Vehicle control

Male animals	111	112	113	114	115
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	116	117	118	119	120
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Test article control

Male animals	111	112	113	114	115
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	116	117	118	119	120
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

DRAIZE Score 48 hours after removal of the dressing

Vehicle control

Male animals	111	112	113	114	115
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	116	117	118	119	120
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Test article control

Male animals	111	112	113	114	115
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	116	117	118	119	120
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Challenge reactions after epidermal application (TEST GROUP)

DRAIZE Score 24 hours after removal of the dressing

Vehicle control

Male animals	101	102	103	104	105
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	106	107	108	109	110
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Test article

Male animals	101	102	103	104	105
Erythema score:	3	2	3	3	2
Edema score:	0	0	1	1	0

Female animals	106	107	108	109	110
Erythema score:	2	4	2	2	3
Edema score:	0	2	0	1	1

DRAIZE Score 48 hours after removal of the dressing

Vehicle control

Male animals	101	102	103	104	105
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Female animals	106	107	108	109	110
Erythema score:	0	0	0	0	0
Edema score:	0	0	0	0	0

Test article

Male animals	101	102	103	104	105
Erythema score:	1	1	2	2	2
Edema score:	0	0	1	1	1

Female animals	106	107	108	109	110
Erythema score:	2	4	1	1	2
Edema score:	2	4	0	0	1

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Anthony Di Battista
Manager, Regulatory Affairs & Toxic Substances Compliance
Toxicology, Regulatory Auditing & Compliance
CIBA-GEIGY Corporation
444 Saw Mill River Road
Ardsley, New York 10502-2699

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

JAN 12 1995

EPA acknowledges the receipt of information submitted by your organization under Section 8(e) of the Toxic Substances Control Act (TSCA). For your reference, copies of the first page(s) of your submission(s) are enclosed and display the TSCA §8(e) Document Control Number (e.g., 8EHQ-00-0000) assigned by EPA to your submission(s). Please cite the assigned 8(e) number when submitting follow-up or supplemental information and refer to the reverse side of this page for "EPA Information Requests".

All TSCA 8(e) submissions are placed in the public files unless confidentiality is claimed according to the procedures outlined in Part X of EPA's TSCA §8(e) policy statement (43 FR 11110, March 16, 1978). Confidential submissions received pursuant to the TSCA §8(e) Compliance Audit Program (CAP) should already contain information supporting confidentiality claims. This information is required and should be submitted if not done so previously. To substantiate claims, submit responses to the questions in the enclosure "Support Information for Confidentiality Claims". This same enclosure is used to support confidentiality claims for non-CAP submissions.

Please address any further correspondence with the Agency related to this TSCA 8(e) submission to:

Document Processing Center (7407)
Attn: TSCA Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Washington, D.C. 20460-0001

EPA looks forward to continued cooperation with your organization in its ongoing efforts to evaluate and manage potential risks posed by chemicals to health and the environment.

Sincerely,

Terry R. O'Bryan

Terry R. O'Bryan
Risk Analysis Branch

Enclosure

12996 A

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Triage of 8(e) Submissions

Date sent to triage: JAN 11 1995

NON-CAP CAP

Submission number: 12996A

TSCA Inventory: Y N D

Study type (circle appropriate):

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Group 2 - Ernie Falke (1 copy total)

ATOX SBTOX SEN w/NEUR

Group 3 - Elizabeth Margosches (1 copy each)

STOX	CTOX	EPI	RTOX	GTOX
STOX/ONCO	CTOX/ONCO	IMMUNO	CYTO	NEUR

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Notes:

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entire document: 0 1 2 **pages** 1 **pages** 1, TABS

Notes:

Contractor reviewer : PUR **Date:** 11/7/94

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TYPE: INT. SUPP FLWP

SUBMITTER NAME: Ciba - Geigy Corporation

INFORMATION REQUESTED: FLW P DATE:
0501 NO INFO REQUESTED
0502 INFO REQUESTED (TECH)
0503 INFO REQUESTED (VOL ACTIONS)
0504 INFO REQUESTED (REPORTING RATIONALE)
DISPOSITION:
0639 REFER TO CHEMICAL SCREENING
0678 CAP NOTICE

VOLUNTARY ACTIONS:
0401 NO ACTION REPORTED
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0403 NOTIFICATION OF WORKERS/OTHERS
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0406 APP/USE DISCONTINUED
0407 PRODUCTION DISCONTINUED
0408 CONFIDENTIAL

SUB. DATE: 04/13/94 OTS DATE: 04/22/94 CSRAD DATE: 05/16/94

CHEMICAL NAME: Chimassorb 81

CAS#: 1843-05-6

INFORMATION TYPE:		P F C
0201	ONCO (HUMAN)	01 02 04
0202	ONCO (ANIMAL)	01 02 04
0203	CELL. TRANS (IN VITRO)	01 02 04
0204	MUTA (IN VITRO)	01 02 04
0205	MUTA (IN VIVO)	01 02 04
0206	REPRO/TERATO (HUMAN)	01 02 04
0207	REPRO/TERATO (ANIMAL)	01 02 04
0208	NEURO (HUMAN)	01 02 04
0209	NEURO (ANIMAL)	01 02 04
0210	ACUTE TOX. (HUMAN)	01 02 04
0211	CHR. TOX. (HUMAN)	01 02 04
0212	ACUTE TOX. (ANIMAL)	01 02 04
0213	SUB ACUTE TOX (ANIMAL)	01 02 04
0214	SUB CHRONIC TOX (ANIMAL)	01 02 04
0215	CHRONIC TOX (ANIMAL)	01 02 04

INFORMATION TYPE:		P F C
0216	EPI/CLIN	01 02 04
0217	HUMAN EXPOS (PROD CONTAM)	01 02 04
0218	HUMAN EXPOS (ACCIDENTAL)	01 02 04
0219	HUMAN EXPOS (MONITORING)	01 02 04
0220	ECO/AQUA TOX	01 02 04
0221	ENV. OCCC/REL/FATE	01 02 04
0222	EMER INCI OF ENV CONTAM	01 02 04
0223	RESPONSE REQEST DELAY	01 02 04
0224	PROD/COMP/CHEM ID	01 02 04
0225	REPORTING RATIONALE	01 02 04
0226	CONFIDENTIAL	01 02 04
0227	ALLERG (HUMAN)	01 02 04
0228	ALLERG (ANIMAL)	01 02 04
0239	METAB/PHARMACO (ANIMAL)	01 02 04
0240	METAB/PHARMACO (HUMAN)	01 02 04

INFORMATION TYPE:		P F C
0241	IMMUNO (ANIMAL)	01 02 04
0242	IMMUNO (HUMAN)	01 02 04
0243	CHEM/PHYS PROP	01 02 04
0244	CLASTO (IN VITRO)	01 02 04
0245	CLASTO (ANIMAL)	01 02 04
0246	CLASTO (HUMAN)	01 02 04
0247	DNA DAM/REPAIR	01 02 04
0248	PROD/USE/PROC	01 02 04
0251	MSDS	01 02 04
0299	OTHER	01 02 04

TRIAGE DATA:

NON-CBI INVENTORY: YES / NO / IN TRANSIT

ONGOING REVIEW: YES (DROP/REFER) / NO (CONTINUE) / REFER

SPECIES: GP

TOXICOLOGICAL CONCERN: LOW / MED / HIGH

USE: Light stabilizer used in plastics

PRODUCTION:

COMMENTS: Non-Cap

0 0 0 0 >

<ID NUMBER> 8(e)-12996A >

<TOX CONCERN> M >

<COMMENT> DERMAL SENSITIZATION IN 10 MALE AND 10 FEMALE GUINEA PIGS IS OF MEDIUM CONCERN. CHALLENGE APPLICATION PRODUCED REACTIONS IN 65% (13/20) OF ANIMALS AT 24 HOURS AND 60% (12/20) OF ANIMALS AT 48 HOURS. $$$$ -CPSS- 0512951021