

CODING FORMS FOR SRC INDEXING

Microfiche No.	OTS0573254		
New Doc ID	86970000153S	Old Doc ID	
Date Produced	11/17/52	Date Received	03/04/97
		TSCA Section	8D
Submitting Organization	DOW CHEM CO		
Contractor			
Document Title	RESULTS OF RANGE FINDING TOXICOLOGICAL TESTS ON PARA SECONDARY BUTYL PHENOL WITH COVER LETTER DATED 02/27/1997 (SANITIZED)		
Chemical Category	PARA SECONDARY BUTYL PHENOL (CAS# 99-71-8)		

OFFICE OF TOXIC SUBSTANCES
CODING FORM FOR GLOBAL INDEXING

REV. 7/27/82

Microfiche No. (7) *		1		No. of Pages		2		
Doc I.D.			3		Old Doc I.D.		4	
					869700001535			
Case No.(s)						5		
Date Produced (6)		6		Date Rec'd (6)		7		
						Conf. Code *		
						N		
Check One:		<input type="checkbox"/> Publication		<input type="checkbox"/> Internally Generated		<input type="checkbox"/> Externally Generated		
Pub/Journal Name						9		
						9		
Author(s)						10		
Organ. Name						11		
Dept/Div						12		
P.O. Box		13		Street No./Name		14		
City		15		State		16		
				Zip		17		
						Country		
MID No. (7)		19		D & B NO. (11)		20		
Contractor						21		
Doc Type				8.D		22		
Doc Title						23		
Chemical Name (300 per name)		25		CAS No. (10)		24		



869700001535

2030 DOW CENTER
February 27, 1997

The Dow Chemical Company
Midland, Michigan 48674

SENT VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED P 178 085 888

Document Control Officer (7407)
Office of Toxic Substances
Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
ATTN: 8(d) Health and Safety Reporting Rule
(Notification Reporting)

Company Sanitized

97 MAR -1, PM 12: 29

RECEIVED
OPTS/PTIC

**ATTENTION: 8(D) HEALTH AND SAFETY REPORTING RULE
(REPORTING)-(NOTIFICATION) DOCKET OPTS-82041**

Dear Sir or Madam:

As required by 40CFR 716 as amended, we herewith submit copies of reports which meet the requirements of the referenced rule as Health and Safety Studies. As noted in the statement enclosed with the reports, they contain Confidential Business Information.

The reports are separated into two categories for your convenience:

- Package 1: Reports from which Confidential Business Information has been deleted (i.e., the "Public File copies").
- Package 2: Reports in which Confidential Business Information has been identified (i.e., the "Full Disclosure copies").

The Dow report identification number (e.g. Dow001) has been placed on the first page of each report submitted. Please refer to this number in any correspondence regarding this submission. Some of these reports may be voluntarily submitted because we are either not sure of Dow's status as a manufacture or processor of the listed chemical; or we are not sure whether the report is a Health/Safety Study as defined in the rule.

Document Control Officer (7407)
February 26, 1997
Page Two

An index to the copies of studies submitted is enclosed. It lists the Dow identification number and title of each report submitted, plus the EPA Document Control number that was furnished by EPA. The unused numbers are also enclosed in a separate envelope.

No studies of these chemicals are in progress, nor are we aware of any studies of which we lack copies.

The Dow Chemical Company is a participant in the Chemical Manufacturers Association AP&E panel electronic data submission pilot. We were asked to submit these reports to the attention of Mr. Jerry Brown (IMD, DEC programs).

Very truly yours,



Linda C. Burgert
Regulatory Consultant
EH&S Regulatory Affairs
Midland, MI 48674

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Attachments



CONFIDENTIAL INFORMATION CLAIM

Copies of Health and Safety Studies are hereby submitted by The Dow Chemical Company ("Submitter") pursuant to the requirements of 40 CFR 716.17. These reports contain Confidential Business Information developed privately and held in secrecy at our place of business. We point out that much of this Confidential Business Information includes sensitive technical trade secrets not requiring proof of substantial harm to justify its protection from public disclosure. The nature of this confidential information provides an opportunity for or actual competitive advantage to the Submitter. Disclosure of the information designated as Dow Confidential Business Information would result in substantial harm to the Submitter's competitive position. So far as we know, the confidential information is not known to others. It was at considerable effort and expense that this information was developed. We, thereby, request under provisions of 40 CFR 2.210-2.515 that this information be treated in confidence by the Environmental Protection Agency, its officials and employees and that adequate precautions for security be maintained to ensure its confidentiality.

The Submitter's confidential information has been circled and marked thus:

**DOW CONFIDENTIAL
BUSINESS INFORMATION
40 CFR 2.201 - 2.215**

SPECIMEN

We further request that:

1. The Submitter be notified within ten (10) working days of a request for any of the documents containing Confidential Business Information by any person, organization, private, or governmental agency under the Freedom of Information Act or under any other governmental authority.
2. The Submitter be notified at least fifteen (15) working days prior to EPA's intended disclosure of information designated by Submitter as Dow Confidential Business Information contained in these reports to a

- contractor or subcontractor of the EPA or to any person, organization, private or governmental agency.
3. All document associated with these reports be returned to Submitter once there is no concrete possibility of their present or continued use by EPA.
 4. The Submitter be specifically advised before Dow Confidential Business Information is disclosed to an EPA contractor so that Dow may secure a Secrecy Agreement with the contractor prior to such disclosure.

Submitter requests that should EPA determine that any deficiencies exist in this claim of confidentiality such deficiencies be pointed out in detail for clear understanding, along with an explanation as to why the same are to be considered deficiencies. The Submitter also requests that a reasonable opportunity be provided to respond to any such alleged deficiencies.

It should also be pointed out that individual liability for unwarranted disclosure is provided for in 18 USC 1905.

rlh
10/95

DOW 10

Business Information

THE DOW CHEMICAL COMPANY

Subject: RESULTS OF RANGE FINDING TOXICOLOGICAL TESTS ON PARA SECONDARY BUTYL PHENOL

Rec'd 2-20-52
Fin'd 11-17-52
Rept. E. Personal Information

Signed *Personal Information*

Date 11-17-52 Checked

Personal Information Date 11-24-52

To:

86970000149 Thru 86970000153

UNIT INDEX

The subject material has a low acute oral toxicity; is severely irritating and damaging to the eyes; and is moderately to severely irritating and destructive to the skin.

INDEX HEADINGS

- Phenol: p-sec-butyl-
- 4-sec-Butylphenol
- p-sec - Butylphenol

PROBLEM

What are the handling hazards of the subject material and what precautions are necessary for safe handling?

CONCLUSIONS

This material presents a serious hazard of eye and skin irritation. Good care and cleanliness practices together with the safety precautions discussed must be observed. In the event of accidental contact, medical attention should be obtained as quickly as possible after immediate first aid measures are exercised.

SAMPLE INFORMATION

Name: Phenol: p-sec-butyl-

Common Name: p-sec-Butylphenol

Molecular Formula: $C_{10}H_{14}O$

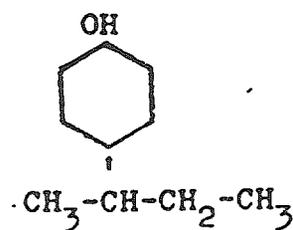
Source: Personal Information

Structural Formula:

Ref.: Process Information

M.P.: 52°C

B.P.: 136°C at 25 mm.Hg.



Date Sample Rec'd.: 2-20-52

Physical State: White solid

SUMMARY OF RANGE FINDING TOXICOLOGICAL DATAAcute Oral Toxicity

Animal	Preparation Fed	Dose (g./kg.)	No. Died No. Fed	Response-Remarks
Cavy	30% in corn oil	3.98	2/2	Died in 1-5 days.
Cavy	30% in corn oil	2.00	0/2	Slight initial weight loss.

Eye Irritation - Rabbit

<u>Material</u>	<u>Treatment</u>	<u>Response-Remarks</u>
100%	Unwashed	Severe pain, irritation, and permanent corneal damage.
100%	Washed	Marked pain, irritation and slight permanent corneal injury.
1% in prop. glycol	Unwashed	Moderate pain, irritation, and permanent cornea injury.
1% in prop. glycol	Washed	Slight to moderate pain, irritation and temporary corneal injury.

Skin Irritation - Rabbit

<u>Material</u>	<u>Condition of Skin</u>	<u>Number of Appl.</u>	<u>Site</u>	<u>Response-Remarks</u>
100%	Intact	1 for 24 hrs.	Belly	Moderate irritation and severe denaturation.
100%	Intact	1 for 7 hrs.	Belly	Moderate irritation, denaturation, and edema.
100%	Intact	1 for 1 hr.	Belly	Moderate irritation and denaturation.
100%	Intact	1 for 18 min.	Belly	Moderate irritation and slight denaturation.
100%	Intact	1 for 12 min.	Belly	Moderate irritation and slight denaturation.
100%	Intact	1 for 6 min.	Belly	Moderate irritation and very slight denaturation.
100%	Intact	1 for 3 min.	Belly	Slight irritation and superficial necrosis.
100%	Intact	1 for 1 min.	Belly	Slight irritation.
10% in 50B	Intact	10	Ear	Moderate irritation, slight superficial necrosis and hair loss.
10% in 50B	Intact	10	Belly	Moderate irritation and superficial necrosis.
1% in 50B	Intact	10	Ear	Very slight scaliness.
1% in 50B	Intact	10	Belly	Very slight irritation and scaliness.

Skin Absorption - Rabbit

The material was not readily absorbed in toxic amounts through the intact skin.

Inhalation (Saturated Atmosphere)

<u>Animal</u>	<u>Bath Temp.</u>	<u>Hrs. Exposed</u>	<u>No. Died</u> <u>No. Treated</u>	<u>Response-Remarks</u>
Rat	23°C	7	0/3	Exhibited no ill effects. Gross pathology essentially negative of autopsy.
Rat	100°C	7	0/3	

SUMMARY OF HAZARDSOral

p-sec-Butylphenol has a low acute oral toxicity. There is no problem from ingestion incidental to the handling and use of this substance. If large quantities were swallowed, accidentally or willfully, some injury might result; the likelihood of serious injury is remote.

Eye

p-sec-Butylphenol presents a serious hazard of eye injury. Pain and conjunctival irritation may be quite severe. Direct contact with the solid or liquified material is likely to result in tissue destruction leading to permanent impairment of vision. Even dilute solutions (1%) are capable of causing appreciable injury. Prompt washing of contaminated eyes with water greatly reduces the degree of irritation or injury.

Skin

The subject material is moderately to severely irritating to the intact skin; a single short exposure of but a few minutes duration is likely to result in a burn. Solutions (of the order of 10%) are slightly to moderately irritating; prolonged or repeated contact may be expected to result in blistering and mild burning. Dilute solutions (1% or less) are but very slightly irritating to intact skin; prolonged and repeated contact would not be expected to cause more than a

mild eczematous type response.

Absorption

p-sec-Butylphenol does not present a problem from skin absorption under ordinary handling conditions.

Vapor

The material presents no hazard of acute toxicity from single exposures to vapors or fumes at room temperature.

PRECAUTIONS FOR SAFE HANDLING AND USE

Special precaution should be taken to prevent contact with the eyes. A face shield, goggles with side shields, or the equivalent will afford suitable protection.

Precaution must be taken to prevent skin contact with the solid or strong solutions. Protective clothing, such as rubber gloves, boots, and aprons should be worn where the likelihood of direct contact exists. Clothing or shoes contaminated with the material, particularly in strong solutions, must be promptly removed and thoroughly cleaned before re-use, or must be discarded. Good care and cleanliness practices should be exercised.

FIRST AID MEASURES

If the eyes are contaminated, they should be flushed promptly with copious amounts of flowing water. Medical attention should be obtained without delay.

If skin contact should occur with the material, all contaminated clothing should be removed immediately and the affected skin area should be flushed thoroughly with water from a safety shower or other suitable device. Thorough cleansing with soap and water is necessary. Medical attention should then be obtained as rapidly as possible.

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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