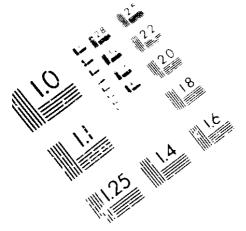
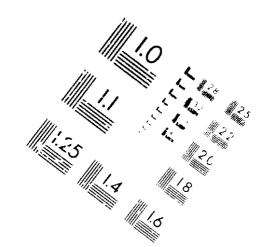
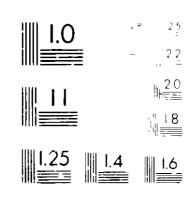
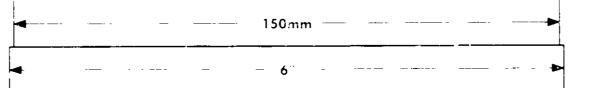
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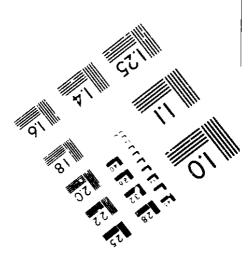






### APPLIED IMAGE

1653 E. MAIN STREET ROCHESTER, NY 14609 TEL (716) 482-0300 FAX (716) 288-5989

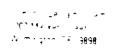


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EYE IRRITATION TEST O	F BENZENE, 1	HLORO - 4 - N	ITRO-* IN RABBITS
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Chemical Name (300 per na	130)	2	5 CAS No. (10)	24





# DuPont Specialty Chemicals

869400007065

May 10, 1994

### OVERNIGHT MAIL

Document Control Office
Office of Pollution Prevention and Toxics
Environmental Protection Agency
401 M Street SW
Washington, DC 20460
Attention: 8(d) Reporting

Dear Sir/Madam:

11 PH 12: 1

# OPPTS--2042: FRL-4745-5

In response to the subject final rule published in the Federal Register on February 9, 1994 (59FR 5956) and effective on March 11, 1994, DuPont Specialty Chemicals submits the enclosed toxicity reports under TSCA section 8(d) Health and Safety Data Reporting on the ollowing chemicals: Dimethyl sulfate, p-Chloronitrobenzene, m-Toluicine, 1,3-Dinitrobenzene, Diphenylamine, 2,4,-Dinitrotoluene, o-Anisidine, Ct. probenzene, Tetrahydrofuran, o-Nitrotoluene, Xylidine, p-Nitroaniline and Phenylhydr. zine

Additionally, we are aware of the following ongoing studies on Tetrahydrofuran (THF).

Under a TSCA section 4 (a) test rule THF is being evaluated for neurotoxicity potential. The testing is being conducted by DuPont on behalf of an industry consortium, the THF Task Force umbrellaed under the Synthetic Organic Chemical Manufacturers Association (SOCMA). To date the in-life phase of an acute neurotoxicity study has been completed. Subchronic neuroto-city testing including neuropathology and evaluations for Motor Activity and Functional Observation Battery will be conducted in the near future.

A two-ganeration reproduction toxicity study is underway at BASF's toxicology laboratories in Germany to determine the reproductive toxicity potential of THF through the oral route of exposure (compound administered in drinking water). The in-life phase of the one generation rangefinder (for the main study) has been completed. The main study is expected to begin later this year. The studies are being conducted by BASF on behalf of an industry consortium of which DuPont is a member

Final reports from both studies will be submitted to EPA when they issue, the final report from the reproductive toxicity rangefinder has been submitted to EPA under the 8(d) rule by BASF

You may contact me on 302/774-6467 if there are any questions regarding this submission

Yours truly.

K D. Dastur

Manager, Product Toxicology and Chemical Regulations

/pmt

Enclosure

LIST OF SUBMITTED STUDIES

36940000761 Title Report # Dimethyl Sulfate (CAS #77-78-1) \_UV. Industrial Hygiene Survey of DMS Manufacture and Use-1 CEL ) Plant HLR# 203-77 Industrial Hygiene Survey of DMS Manufacturing 2. Facilities ( C81 ) Plant HLR# 202-77 3 Acute Inhalation 1 exicity and Antidote Study HLR# 318-71 4 Preliminary Tests on the Toxicity of Diethyl Sulfate and Diethyl Peroxide (DMS data included) NA. 5. Primary Skin Irritation and Sensitization Tests on Guinea Pigs HLR# 22-72 6. Mutagenicity Evaluation in Salmonella Typhimurium HLR# 348-81 Dimethyl Sulfate Permeation Testing 7. HLR# 261-81 Dimethyl Sulfate Permeation Testing HLR# 538-81 Teratogenicity Study of Dimethyl Sulfate in Rats HLR# 535-91 Carcinogenicity and Chronic Toxicity of Inhaled Dimethyl Sulfate NA. 1-Chloro-4-nitrobenzene (p-Nitrochlorobenzene) (CAS#100-00-5) Inhalation Median Lethal Concentration (LC50) HLR# 751-81 1. Subchronic Inhalation Toxicity Study of p-Chloronitrobenzene (PCNB) in Pats HLR# 429-84 96-Hour LC50 to Fathead Minnows 3. HLR#62-79 CSI Toxicity of Compounds Used in ( ) Building HLR# 13-49 Eye Irritation Test in Rabbits 5. HLR# 57-82 In Vitro Microbial Mutagenicity Studies of 6. p-Nitrochlorobenzene HLR# 404-75 Mutagenic Activity of Mixed Nitrochlorobenzene [o-, p-] in the Salmonella Microsome Assav HLR# 539-77 Mutagenic Activity of para-Chlorontrobenzene In Salmonella/Microsome Assay HLR# 53**5**-77 Mutagenic Activity of Benzene, para-Nitrochloro-46.5% in Salmonella/Microsome Assay HLR# 965-77 Mutagenic Activity of Mixed Nitrochlorobenzene in Salmonella/Microsome Assay HLR# 964-77 HLR# 392-78 Mutagenic Activity in the Salmonella/Microsome Assay 11 HLR# 535-78 12. Mutagenic Activity in the Salmonella/Microsome Assay 13. Mutagenic Activity in the Saimonella/Microsome Assay HLR# 536-78 14. Mutagenic Activity in the Salmonella/Microsome Assay HLR# 705-78

Mutagenic Activity in the Salmonella/Microsome Assay

16. Mutagenic Activity in the Chinese Hamster Civary Assay.

15

HLP# 275-79

HLR# 24-80

# List of Submitted Studies (continued)

	<u>Title</u>	<u>Report ≠</u>
1.3-	Dinitrobenzene (CAS#99-65-0)	
1.	Nitrobenzene Derivatives	NA
ומוט	nenyiamine (CAS#122-39-4)	
1.	Para Chlor Aniline Quinaldine and ( CSF	
_		NA.
2.	Results of Iriorganic Lead and Diphenylamine  Air Samples Collected at the (	HLR# 484-76
3.	Department of Transportation Skin Corrosion Test on Rabbit Skin	HLR# 421-75
2.4.	- Dinitrotoluene (CAS#121-14-2)	
1.	iridustrial Hygiene Survey of the ( Ca)	
	) Involving Dry Chemical Handling Procedures	HLR# 71-77
2.	Evaluation of Exposure to 2,4-Dinitrotoluene While	=
•	Handloading Shotshell - ( CBI )	HLR# 654-79
3. 4.	Class B Poison Labelling Test 96-Hour LC50 to Fathead Minnows	HLR# 26-66 HLR# 61-79
5.	Eye Irritation Test in Rabbits	HLR# 713-81
6.	Department of Transportation Skin Corrosion Test on	77211# 713-01
<b>J</b> .	Rabbit Skin	HLR# 556-73
7	Oral Bioassay Study (Dogs)	HLR# 490-76
8.	The Toxicity of TNT and DNT	NA
9.	Teratological and Postnatal Evaluation of Dinitrotoluene	
	in Fischer 344 Rats	RTI Report
		PTI/1938/0003F
10.	A thirty day toxicology study in Fischer 344 rats given dinitrotoluene-technical grade. (Study performed at	
	Hazieton Laboratories America, Inc. for Chemical	
	Industry Institute of Toxicology, Research Triangle Park, NC-	

# List of Submitted Studies (Continued)

	<u>Title</u>	Paport #
<u>o-A</u>	<u>nisidine</u> (CAS#90-04-0)	
1. 2. 3. 4.	Toxicity of Compounds Used in (Hydrogen Reduction) Building Department of Transportation Skin Corrosion Test on Rabbit Skin In Vitro Microbial Mutagenicity Studies of ortho-Anisidine Toxic Hazards Evaluation of Five Atmospheric Pollutants from Army Ammunition Plants	NA HLR# 532-73 HLR# 247-75 NA
Chi	orcbenzene (CAS#108-90-7)	
1	Mutagenic Acitivty of Monochlorobenzene in the Salmonella/Microsome Assay	HLR# 537-77
<u> Tet</u>	rahydrofuran (CAS#109-99-9)	
1. 2. 3. 4. 5. 6.	Acute Toxicity Evaluation By Aspiration and Insuffiation Toxicity of Tetrahydrofuran Acute Inhalation Toxicity in Rats 48-Hour LC50 to Daphnia Magna 96-Hour LC50 to Fathead Minnows Federal Hazardous Substances Act Test - Rabbit Eye Irritation 96-Hour LC50 to Fathead Minnows Tetrahydrofuran (THF) Inhalation Effect on the Rat Conceptus	HLR# 374-71 NA HLR# 848-79 HLR# 744-80 HLR# 745-80 HLR# 290-71 HLR# 105-82 HLR# 750-82
ø-N	litrotoluene (CAS#88-72-2)	
1 2 3. 4.		HLR# 98-72 HLR# 84-72 HLR# 56-72 HLR#626-73
<u>Ph</u>	enythydrazine (CAS#100-63-0)	
1.	Acute Skin Absorptic Toxicity	HER# 106-63

# List of Submitted Studies (Continued)

	<u>Title</u>	Report #
Χу	idine (CAS#1300-73-8)	
1 2. 3.		HLR# 228-69 HLR# 172-69
J.	Department of Transportation Skin Corrosion Test on Rabbit Skin	HLR# 538-73
-/ <u>4-1</u>	litroaniline (p-Nitroaniline) (CAS#100-01-6)	
1.	Subchronic Inhalation Toxicity Study of p-Nitroaniline (PNA) in Rats	HLR# 372-84
2.	Toxicity of Compounds Used in Hydrogen Reduction Building	NA NA
3 4.	Inhalation Median Lethal Concentration (LC50) Micronucleus assay with p-Nitroanitine	HLR# 856-81 MSL-9283
<u>m-</u>	Toluidine (CAS#108-44-1)	
1	Oral Class B Poison Test	HLR# 543-74
2.	Oral LD50 Test in Rats	HLR# 955-80
3. 4.	Eye Irritation Test in Rabbits Skin Irritation Test in Rabbits	HLR# 945-80 HLR# 948-80
5.	DOT Skin Corrosion Test	HLR# 527-73

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CSI

E. I. du Pont de Nemeurs and Co., Inc. Haskall Laboratory for Toxicology and Industrial Medicine Elkton Road, P. O. Box 50, Newark, Delaware 19711

BASKELL LABORATURY REPORT NO. 57-82

Material Tested Benzene, l-chloro-4-nitro-\* Haskell No. 14,234

Study Initiated/Completed 12/18/81-12/21/81

Material Submitted by

C5!

### EYE IRRITATION TEST IN RABBITS

Results and Summary: 1-Chloro-4-mj robenzene caused no corneal, iritic or conjunctival affects after treatment in an unwashed rabbit eye. An eye treated and promptly washed had a small area of transient slight cornect cloudiness and no iritic or conjunctival effects. The washed eye was normal 4 hours after treatment.

This material produced only transient slight corneal cloudiness. Avoid eye contact. If contact occurs, wash eye with copious amounts of water.

Procedure: Ten mg of solid test material was placed into the right conjunctival sac of each of 2 male albino rat' ts. After 20 seconds, 1 treated eyr was washed with tap mater for 1 : note. The treated eye of the other rabbit was not washed. Observations of the cornes, iris and conjunctiva were made with an ophthalmoscope at 1 and 4 hours, and at 1, 2, and 3 days; Fluor-i-strip® stain and a slit-lamp biomicroscope were used at examinations after the day of treatment.

Fut Lty: 99.5%

Contaminants: o-Nitrochlorosunzane

Synonye: p-Nitrochlorobenzene

CAS Registry No.: 100-00-5

Technician

Study Director

Approved by:

Gerald L. Kennedy, Jr.

Section Supervisor Acute Irvestigations

JEH: tac:WP:2.13

Date Issued: January 20, 1982

Report No. 3/-04



### CERTIFICATE OF AUTHENTICITY

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