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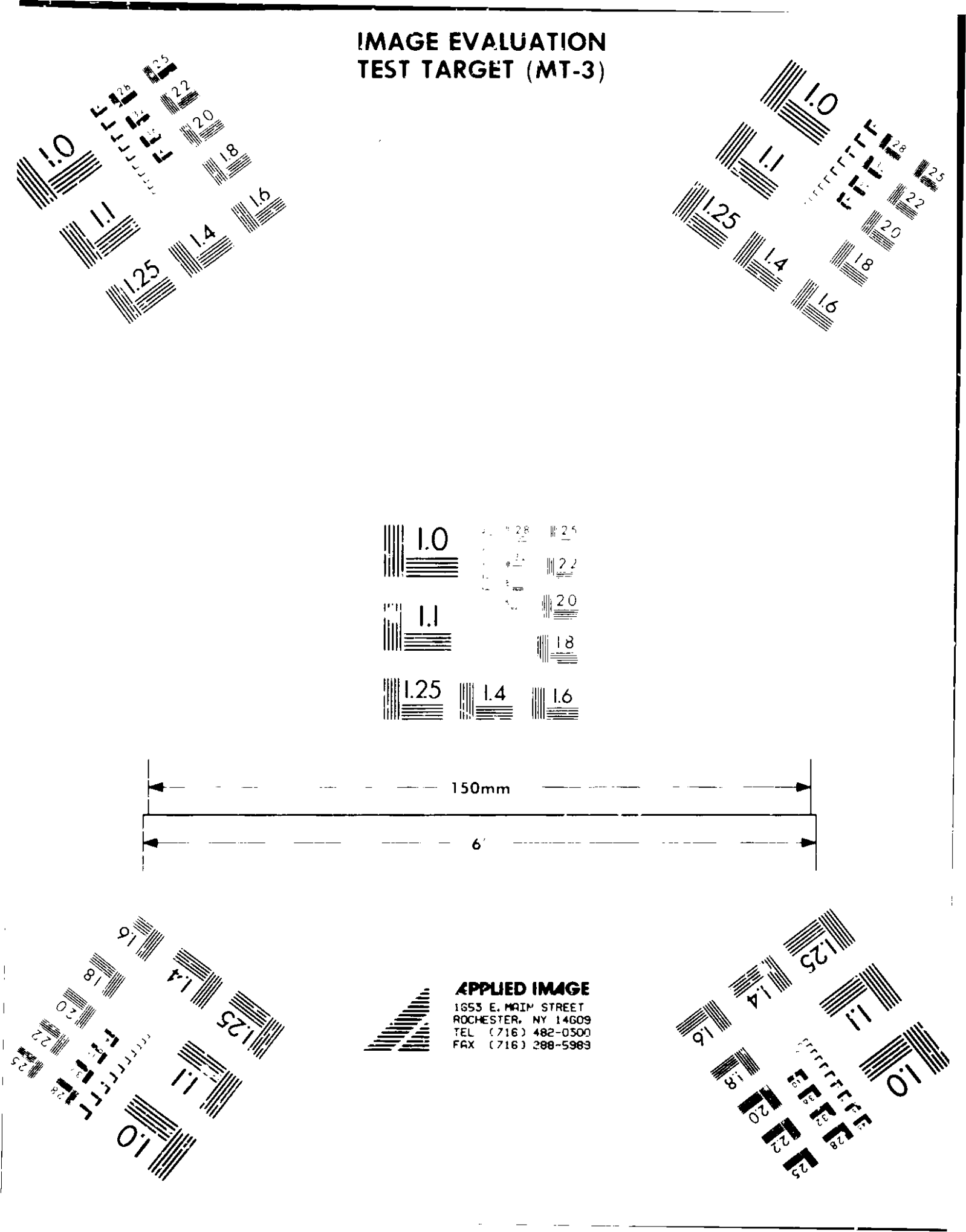
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Contractor
HACKSON LABORATORY

Document Title
TOXICITY EVALUATION OF NITROBENZENE DERIVATIVES WITH COVER LETTER OUTLINING CURRENT STUDY OF TFTRAHYDROFURAN TOXICITY DATED 05/10/94 (SANITIZED)

Chemical Category
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DuPont Specialty Chemicals

May 10, 1994

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

Dear Sir/Madam:

OPPTS-82042; 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 following chemicals: Dimethyl sulfate, p-Chloronitrobenzene , m-Toluidine, 1,3-Dinitrobenzene, Diphenylamine, , 2,4,-Dinitrotoluene, o-Anisidine, Chlorobenzene, Tetrahydrofuran, o-Nitrotoluene, Xylidine, p-Nitroaniline and Phenylhydrazine.

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 neurotoxicity testing including neuropathology and evaluations for Motor Activity and Functional Observation Battery will be conducted in the near future.

A two-generation 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 rangafinder 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

K. D. Dastur
Manager, Product Toxicology
and Chemical Regulations

/pmt
Enclosure

8594000000761

LIST OF SUBMITTED STUDIES

	Title	Report #
	Dimethyl Sulfate (CAS #77-78-1)	
1.	Industrial Hygiene Survey of DMS Manufacture and Use-(CBI) Plant	HLR# 203-77
2	Industrial Hygiene Survey of DMS Manufacturing Facilities - (CBI) Plant	HLR# 202-77
3.	Acute Inhalation Toxicity 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
7.	Dimethyl Sulfate Permeation Testing	HLR# 261-81
8.	Dimethyl Sulfate Permeation Testing	HLR# 538-81
9.	Teratogenicity Study of Dimethyl Sulfate in Rats	HLR# 535-91
10.	Carcinogenicity and Chronic Toxicity of Inhaled Dimethyl Sulfate	NA
	1-Chloro-4-nitrobenzene (p-Nitrochlorobenzene) (CAS#100-00-5)	
1.	Inhalation Median Lethal Concentration (LC50)	HLR# 751-8[illegible]
2.	Subchronic Inhalation Toxicity Study of p-Chloronitrobenzene (PCNB) in Rats	HLR# 429-84
3.	96-Hour LC50 to Fathead Minnows	HLR#S2-79
4	Toxicity of Compounds Used in (CBI) Building	HLR# 13-49
5.	Eye Irritation Test in Rabbits	HLR# 57-82
6.	In Vitro Microbial Mutagenicity Studies of p-Nitrochlorobenzene	HLR# 4[illegible]4-75
7.	Mutagenic Activity of Mixed Nitrochlorobenzene [o-, p-] in the Salmonella Microsome Assay	HLR# 539-77
8.	Mutagenic Activity of para-Chloronitrobenzene In Salmonella/Microsome Assay	HLR# 538-77
9.	Mutagenic Activity of Benzene, para-Nitrochloro-46.5% in Salmonella/Microsome Assay	HLR# 965-77
10.	Mutagenic Activity of Mixed Nitrochlorobenzene in Salmonella/Microsome Assay	HLR# 964-77
11.	Mutagenic Activity in the Salmonella/Microsome Assay	HLR# 392-78
12.	Mutagenic Activity in the Salmonella/Microsome Assay	HLR# 535-78
13.	Mutagenic Activity in the Salmonella/Microsome Assay	HLR# 536-78
14.	Mutagenic Activity in the Salmonella/Microsome Assay	HLR# 705-79
15.	Mutagenic Activity in the Salmonella/Microsome Assay	HLR# 275-79
16.	Mutagenic Activity in the Chinese Hamster Ovary Assay	HLR# 24-80

List of Submitted Studies (continued)

	Title	Report #
1,3-Dinitrobenzene (CAS#99-65-0)		
1.	Nitrobenzene Derivatives	NA
Diphenylamine (CAS#122-39-4)		
1.	Para Chlor Aniline Quinaldine and (CBI)	NA
2.	Results of Inorganic Lead and Diphenylamine Air Samples Collected at the (CBI) Plant	HLR# 484-76
3.	Department of Transportation Skin Corrosion Test on Rabbit Skin	HLR# 421-75
2,4 - Dinitrotoluene (CAS#121-14-2)		
1.	Industrial Hygiene Survey of the (CBI) Involving Dry Chemical Handling Procedures	HLR# 71-77
2.	Evaluation of Exposure to 2,4-Dinitrotoluene While Handloading Shotshell - (CBI)	HLR# 654-79
3.	Class B Poison Labelling Test	HLR# 26-66
4.	96-Hour LC50 to Fathead Minnows	HLR# 61-79
5.	Eye Irritation Test in Rabbits	HLR# 713-81
6.	Department of Transportation Skin Corrosion Test on 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 RTI/1938/0003F
10.	A thirty day toxicology study in Fischer 344 rats given dinitrotoluene-technical grade. (Study performed at Hazleton Laboratories America, Inc. for Chemical Industry Institute of Toxicology, Research Triangle Park, NC-	

List of Submitted Studies (Continued)

	Title	Report #
o-Anisidine (CAS#90-04-0)		
1.	Toxicity of Compounds Used in (Hydrogen Reduction) Building	NA
2.	Department of Transportation Skin Corrosion Test on Rabbit Skin	HLR# 532-73
3.	In Vitro Microbial Mutagenicity Studies of ortho-Anisidine	HLR# 247-75
4.	Toxic Hazards Evaluation of Five Atmospheric Pollutants from Army Ammunition Plants	NA
Chlorobenzene (CAS#108-90-7)		
1.	Mutagenic Acitivty of Monochlorobenzene in the Salmonella/Microsome Assay	HLR# 537-77
Tetrahydrofuran (CAS#109-99-9)		
1.	Acute Toxicity Evaluation By Aspiration and Insufflation	HLR# 374-71
2.	Toxicity of Tetrahydrofuran	NA
3.	Acute Inhalation Toxicity in Rats	HLR# 848-79
4.	48-Hour LC50 to Daphnia Magna	HLR# 744-80
5.	96-Hour LC50 to Fathead Minnows	HLR# 745-80
6.	Federal Hazardous Substances Act Test - Rabbit Eye Irritation	HLR# 290-71
7.	96-Hour LC50 to Fathead Minnows	HLR# 1[illegible]5-82
8.	Tetrahydrofuran (THF) Inhalation Effect on the Rat Conceptus	HLR# 750-82
o-Nitrotoluene (CAS#88-72-2)		
1	Inhalation Class B Poison	HLR# 98-72
2.	Class B Poison Tests on Rabbit Skin	HLR# 84-72
3.	Acute Oral Test	HLR# 56-72
4.	Department of Transportation Skin Irritation Test on Rabbit Skin	HLR#626-73
Phenylhydrazine (CAS#100-63-0)		
1	Acute Skin Absorption Toxicity	HLR# 106-63

List of Submitted Studies (Continued)

	Title	Report #
	Xylidine (CAS#1300-73-8)	
1	Class B Poison Test	HLR# 228-69
2.	Class B Poison Test	HLR# 172-69
3.	Department of Transportation Skin Corrosion Test on Rabbit Skin	HLR# 538-73
	4-Nitroaniline (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
3.	Inhalation Median Lethal Concentration (LC50)	HLR# 856-81
4.	Micronucleus assay with p-Nitroaniline	MSL-9283
	m-Toluidine (CAS#108-44-1)	
1	Oral Class B Poison Test	HLR# 543-74
2.	Oral LD50 Test in Rats	HLR# 955-80
3.	Eye Irritation Test in Rabbits	HLR# 945-80
4.	Skin Irritation Test in Rabbits	HLR# 948-80
5.	DOT Skin Corrosion Test	HLR# 527-73

1,3-DINITROBENZENE

MR-0312-010

8694100007/8s

May 25, 1971

RICHARD IRELAN
ORGANIC CHEMICALS DEPARTMENT
JACKSON LABORATORY

Nitrobenzene Derivatives

Herewith is a summary of the Class B poison tests conducted at Haskell Laboratory at the request of E. Barthel, March 28, 1955 on ortho-nitrochlorobenzene, dinitrobenzene, para-nitrochlorobenzene, and 2,4-dinitrochlorobenzene. I am also enclosing a copy of Haskell Laboratory Report 13-49 which contains added information.

A single skin absorption dose of ortho-nitrochlorobenzene at 250 mg/kg was done on ten male albino rabbits over a fifteen to thirty-minute period in dimethyl phthalate. All animals were sacrificed after completion of the forty-eight hour observation period. Autopsies were performed on all animals. Two animals, slightly cyanotic before death, showed methemoglobinemia at autopsy. Orthonitrochlorobenzene is not a Class B poison via the [redacted] route. R.N.D. 3/26/73

Fifty mg/kg of dinitrobenzene, para-nitrochlorobenzene, and 2,4-dinitrochlorobenzene was administered orally to ten male albino rats. All rats from each compound tested survived. These compounds are not Class B poisons via the oral route R.N.D. 3/26/73

I am also sending you, per our telephone conversation of May 24, 1971, the following articles which may be of interest to you:

1. Dicke, S. H., G. S. Allen and C. P. Richter, "The Acute Toxicity of Thioureas and Related Compounds to Wild and Domestic Norway Rats", J. Pharmacol. Exp. Therap. 90: 260-270, (1947).

2. Gage, J. C.; "The Subacute Inhalation Toxicity of 109 Industrial Chemicals", Brit. J. Industr. Med. 27: 1-18, (1970).

ORIGINAL SIGNED BY
R. N. DION
RICHARD N. DION

CJS

RND/neh
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