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Contractor			
Document Title	TOXICITY AND HEALTH HAZARD SUMMARY OF P-NITROTOLUENE, WITH COVER LETTER DATED 09/08/95		
Chemical Category	P-NITROTOLUENE (99-99-0)		

CODING FORM FOR GLOBAL INDEXING

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Environmental Protection Agency
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Contains No CR

ATTN: 8(d) Reporting

Ladies and Gentlemen:

Subject: p-Nitrotoluene (CAS No. 99-99-0)

Enclosed are studies in the possession of Eastman Kodak Company (Kodak) required to be submitted to the Environmental Protection Agency under amended regulations published in the Federal Register on July 5, 1995. Routine monitoring data and documents containing underlying data for a study have not been submitted.

Any questions concerning this submission should be directed to Mr. James R. Humphreys, (716) 722-4749.

Sincerely,

John O'Donoghue, V.M.D., Ph.D
Director, Corporate Health and Environment Laboratories
(716) 588-4741

JLO/JRH

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TOXICITY AND HEALTH HAZARD SUMMARY
(Does not include physical hazards - flammability, etc.)

CHEMICAL: p-Nitrotoluene

SYNONYMS: 4-Methylnitrobenzene

PHYSICAL FORM: Solid
MP or BP in °C: MP 52-54

FORMULA: C₇H₇NO₂



TOXICITY:

	<u>Toxicity</u> <u>Classif.</u>	<u>Rats</u>
Oral LD ₅₀ (mg/kg): ¹	Slight	ca. 2140

* * * * *

Skin Irritation (G.P.): p-Nitrotoluene had no irritating effect on the skin of rabbits.²

Skin Absorption LD₅₀: Non-lethal when applied to the skin of six rabbits in 200 mg. dosage.¹ No evidence of skin absorption at 1.0 g/kg.³

Eye Irritation (Rabbit): No irritating effect.²

Inhalation (Rats): No deaths were produced in a group of 10 rats exposed for one hour to the vapors generated by heating p-nitrotoluene to 54-60°C. The maximum concentration attainable was 0.23 mg/l.¹

Other: The TLV is 5 ppm (30 mg/m³).

HAZARDS:

Skin: Low
Respiratory: Low
Eye: Low

PRECAUTIONARY HANDLING:

Skin: Normal good industrial hygiene practice
Respiratory: ditto
Eye: ditto

REFERENCES:

1. Letter from E. I. DuPont De Nemours and Company, Wilmington, Delaware, 19898, dated 11/30/78.
2. Sziza, M., et al., Munkavedelem, 5, 49-52 (1959), (CA 54: 7891), from reference 1 above.
3. Unpublished data, Health, Safety, and Human Factors Laboratory, Eastman Kodak Company, Rochester, New York 14650.

HEALTH HAZARD: (Kodak Park Safety Std. 7.09)

SUMMARIZED BY: R. L. Sharp, Ph.D.

R- 1
S- 1

DATE: May 21, 1979

FOR USE ONLY WITHIN EASTMAN KODAK COMPANY

YUW44

TOXICITY REPORT - E.I.CO. - LABORATORY OF INDUSTRIAL MEDICINE

Chemical: p-Nitrotoluene No: 194 Source: Hartman Formula: NO₂ C₆H₄ CH₃

Solution	Animal* No. and Species	Route**	Dose Range mg/kg	Approx. LD ₅₀ mg/kg	Symptoms	Time of Death	Wt. Change 2 wks
<u>Acute Toxicity</u> Suspension-10% in 2% NaCS	3R	PO	50-3200	400- 3200	Slightly to very weak	2 days	2+
<u>Skin Absorption and Irritation</u> Solid moist with H ₂ O	20.P.	Guff	mg/kg 0.5-1.0	g/kg >1.0	Slight redness. Sparse hair, slight desquamation; 1- 1/8" diameter eschar on low dose at 1 week. Animals OK at 2 weeks.	—	+16 +22
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*G.P. - Guinea Pig, M - Mouse,
R - Rat, RB - Rabbit

Remarks:

Slightly toxic compound.
Very slight skin irritant with no evidence of absorption.

**PO - Orally, IP - Intraperitoneally,
IM - Intramuscularly, IC - Intracutaneously

7-28-57

99-99-0



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