

Sobel
2/23/87

R&S 020361

ST0161490

BACKGROUND ON OTT VINYL CHLORIDE STUDY

The mortality experience of individuals occupationally exposed to vinyl chloride and lesser amounts of vinylidene chloride was studied

Employees were grouped into four exposure categories (high, intermed low, unmeasured) according to highest level of vinyl chloride exposure experienced for at least one month.

New Chemical Company Material Produced Pursuant
to Court Order
Case No. 93-4937
U.S. District Court
Southern District of New York
New Chemical Company
Case No. 04-CV-00993 (SH)
Western District of New York

HISTORY

Research involving vinyl chloride began in mid 1930's

1941 - small copolymer plant

4 operators, 2 miller-packers, 1 foreman, 1 superintendent

Late 1940's - 2 asst. operators added, larger dept. with more operating, clerical and supervisory personnel

Late 1940's - smaller unit to produce VCM and copolymer semiplant were operated

1952 - outdoor homopolymer (PVC) and copolymer plant built

Third copolymer unit begun

1969 - PVC production discontinued . Facilities were used to modernize copolymer production. Plant built in 1941 closed.

Original study - Population defined as those who began work between 1942 and 1960 . Exposure considered until 1972.

Five Production Units Included :

Unit I	Copolymer	1942-1960
Unit II	PVC and copolymer	1953-1960
Unit III	VC Monomer	1947-1954
Unit IV	Copolymer Semi Plant	1946-1955
Unit V	Vinyl Latexes and Polymer Plant	1946-1960

VINYL CHLORIDE INDUSTRIAL HYGIENE DATA

(From Ott report)

Company

Western District of New York

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Surveys were made during the period 1950-1959

Production Unit I - copolymer plant (Saran Plant/Saran Polymer)

Wet end and dry end operations

All job classifications except below	200-300 ppm	1/41-12/59
	<25 ppm	1/60 +
Monomer Still and Flash Drier Operator	25-200 ppm	1/57-12/59
	<25 ppm	1/60 +

Production Unit II- PVC and Copolymer (Saran V1V2)

All job classifications except below	25-200 ppm	2/52-12/66
	<25 ppm	1/67 +
Coagulator Operator or Tank and Wheel Operator	200-300 ppm	2/52-12/66
	25-200 ppm	1/67 +
Foreman, Utility Man, Janitor, Handyman	<25 ppm	2/52 +

Production Unit III- Vinyl Chloride Monomer Plant (1947-1954)

Production Unit IV- Copolymer Semiplant (1946-1955)

Production Unit V- Vinyl Latexes and Polymer Plant (1946-1960)

insufficient
data
available
indeterminate
exposure
assigned