



TOXICOLOGY
INFORMATION
PROGRAM

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SCIE NUMBER

88 1711

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NOTICE OF RESEARCH PROJECT

SUPPORTING ORGANIZATION		SUPPORTING ORGANIZATION NUMBER(S)	
National Institute of Environmental Health Sciences Research Triangle Park, NC 27709		Contract No. 72-2084 and/or Control No.	
PROJECT TITLE			
Toxicity of Vinyl Chloride Monomer (VCM) and Vinylidene Chloride Monomer (VDM)			
INVESTIGATOR(S)		DEPARTMENT/SPECIALTY, SCHOOL OR DIVISION	
Dr. C.C. Lee Dr. J.J. Woods		Midwest Research Institute Biochemical Toxicology Group, NIEHS	
PERFORMING ORGANIZATION		PERIOD FOR THIS NRP	
Midwest Research Institute Name and Address. 425 Volker Boulevard Including Zip Code. Kansas City, MO 64141		Start Date: December 1974 End Date: December 1977 Annual Funding \$70,000	
PROJECT SUMMARY: Be brief—200 word maximum (Include Objective, Approach, Current Plans and/or Progress)			
Rats and mice of both sexes were exposed to 50, 250, or 1000 ppm VCM or to 55 ppm VDM 6 hrs/day, 5 days/week for their lifetimes in closed inhalation chambers. Methods employed to determine toxicity of the compounds included chromatographic procedures, spectroscopy, histology, pathology, hematology, immunological techniques and cytogenic analyses. The project is continuing to establish VCM and VDM response profiles for use in high to low dose, animal to human extrapolation studies.			
CAS Registry No.			
Vinyl Chloride Monomer 75-01-4			
Vinylidene Chloride Monomer 75-35-4			
TOX-TIPS SEPTEMBER 1977 16-45			

The bibliographic references (author, title, source) on this page have been obtained from searches of the following National Library of Medicine's on-line retrieval files: TOXLINE, CHEMLINE, MEDLINE, SDILINE, and CANCERLINE. The searches, made on the substances that are the subject of the test described in the Notice of Research Project, usually have retrieved the most recent citations from these files. Because these searches have not been exhaustive the investigator may wish to obtain more complete searches on the test substances by searching the NLM on-line files or by contacting the Toxicology Information Response Center (TIRC) at the Oak Ridge National Laboratory, P.O. Box X, Building 7509, Oak Ridge, TN 37830 — Phone 615-483-8611 extension 31433

BARTSCH H ; MONTESANO R

Mutagenic and carcinogenic effects of vinyl chloride.

MUTAT RES; 32 (2). 1975 (RECD 1976) 93-114

FERON VJ ; SPEEK AJ ; WILLEMS MI ; VAN BATTUM D ; DE GROOT AP
Observations on the oral administration and toxicity of vinyl chloride in rats.

FOOD COSMET TOXICOL; 13 (6). 1975 (RECD 1976) 633-638

Hefner RE Jr ; Watanabe PG ; Gehring PJ

Preliminary studies on the fate of inhaled vinyl chloride monomer (VCM) in rats.

Environ Health Perspect; VOL 11, 1975, P85-95

Jaeger RJ ; Mullen FE ; Coffman LJ ; Murphy SD

Vinyl chloride hepatotoxicity and its alteration by modifiers of hepatic biotransformation in the rat

Proc. Eur. Soc. Toxicol.; VOL 17, ISS Predict. Chronic Toxic. Short Term Stud., Proc. Meet., 1975, 1976, 301-8

JAEGER RJ ; CONOLLY RB ; MURPHY SD

Short-term inhalation toxicity of halogenated hydrocarbons: Effects on fasting rats.

ARCH ENVIRON HEALTH; 30 (1). 1975 26-31

LOPRIENO M ; BARALE R ; BARONCELLI S ; BAUER C ; BRONZETTI G
CAMELLINI A ; CERCIGNANI G ; CORSI C ; GERVAZI G ; LEPORINI C
NIERI R ; ROSSI AM ; STRETTI G ; TURCHI G

EVALUATION OF THE GENETIC EFFECTS INDUCED BY VINYL CHLORIDE MONOMER(VCM) UNDER MAMMALIAN METABOLIC ACTIVATION: STUDIES IN VITRO AND IN VIVO

MUTAT RES; 40:85-96, 1976; CA 84-160406

SCHWETZ BA ; LEONG BKJ ; SMITH FA ; BALMER M ; GEHRING PJ
RESULTS OF A VINYL CHLORIDE-TERATOLOGY STUDY IN MICE, RATS AND RABBITS

TOXICOL APPL PHARMACOL; 33:134, 1975; BI 76-6808

WITHEY JR ; COLLINS BT

A statistical assessment of the quantitative uptake of vinyl chloride monomer from aqueous solution.

J TOXICOL ENVIRON HEALTH; 2 (2). 1976 (RECD 1977) 311-321