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UNIFORM IN THE 3 COMMUNITIES AND APPEARED MOST PROMINENT IN PAINESVILLE.
DESCRIPTORS ***** VCM;PVC;BIRTH DEFECTS;HUMAN;EFFECTS;EPIDEMIOLOGY;
REVIEW YEAR 1992

Item 229

ACCESSION NUMBER 1747
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT NIOSH STUDIES WHERE INDUSTRY AND/OR OCCUPATIONAL GROUPS ARE INVESTIGATED
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH
DATE 1984
ABSTRACT THESE ARE ONE PAGE SUMMARIES OF EPIDEMIOLOGY STUDIES. THEY HAVE BEEN USED BY RALPH NADER TO SHOW CONGRESS EXAMPLES OF INSTANCES WHERE INDUSTRY HAS CONDUCTED RESEARCH BUT HAS NOT NOTIFIED THE WORKERS.

DESCRIPTORS ***** VINYL CHLORIDE MONOMER;EPIDEMIOLOGY;HUMANS;EFFECTS;NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH;
REVIEW YEAR 1990

Item 230

ACCESSION NUMBER 1719
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT WORKING CONDITIONS AND MEASURES FOR THEIR SANITATION IN THE PRODUCTION AND UTILIZATION OF VINYL CHLORIDE PLASTICS
AUTHOR/AFFILIATION TRIBUKH SL,NONE;TIKHOMIROVA NP,NONE;LEVIN SV,NONE; KOZLOV,NONE;
ORIGIN ARG SANIT,VOL 10 PP.38-45;
DATE 1949
ABSTRACT THIS DOCUMENT IS OFTEN QUOTED BY LAWYERS AS EARLY EVIDENCE OF VCM CAUSING LIVER DAMAGE. HOWEVER, OTHER THINGS SUCH AS PCB'S COULD ACCOUNT FOR ILLNESS OBSERVED.

DESCRIPTORS ***** VINYL CHLORIDE MONOMER;CANCER;HUMANS;EFFECTS;LIVER;
HELD TERMS ACADEMY OF MEDICAL SCIENCES (USSR);
REVIEW YEAR 1998

Item 231

ACCESSION NUMBER 1718
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL HAZARDS OF VINYL CHLORIDE AND STYRENE
AUTHOR/AFFILIATION NICHOLSON MJ,CITY UNIV OF NEW YORK;HENNEBERGER PK,SAME; SEIDMAN H,SAME;TARR D,SAME;
ORIGIN NONE,VOL 141 PP.65-78 155-176 263-278;
DATE 1984
ABSTRACT ARTICLES PUBLISHED DISCUSS "TRENDS IN CANCER MORTALITY AMONG WORKERS IN THE SYNTHETIC POLYMERS INDUSTRY (PP.65-78) ,"OCCUPATIONAL HAZARDS IN THE VC-PVC INDUSTRY (PP.155-176;OCCUPATIONAL HAZARDS IN PRODUCTION OF PROCESSING OF STYRENE POLYMERS--EPIDEMIOLOGIC FINDINGS (PP.263-278)."

DESCRIPTORS ***** VINYL CHLORIDE MONOMER;STYRENE;CANCER;HUMANS;EFFECTS;EPIDEMIOLOGY;
HELD TERMS PROGRESS IN CLINICAL AND BIOLOGICAL RESEARCH;

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COMMENTS MNJ(85) QUESTIONS THE CLAIM THAT VCM CAUSES LUNG CANCER.
 REVIEW YEAR 1990

Item 232

ACCESSION NUMBER 1711
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT GENETIC SUSCEPTIBILITY TO SCLERODERMA-LIKE SYNDROME INDUCED BY VINYL CHLORIDE
 AUTHOR/AFFILIATION BLACK CM,NONE;WALKER AE,NONE;CATOGGIO LJ,NONE;WELSH KI,NONE; BERNSTEIN RM,NONE;MCGREGOR AR,; JONES JKL,NONE;
 ORIGIN NONE,PP53-55;
 DATE 1983
 ABSTRACT VINYL CHLORIDE (VC) MONOMER CAN INDUCE A SCLERODERMA-LIKE SYNDROME IN A PROPORTION OF WORKERS EXPOSED TO IT DURING PRODUCTION OF POLYVINYL CHLORIDE. AS PART OF A 5-YEAR FOLLOW-UP STUDY HLA A, B, AND DR ANTIGENS AND ANTI-CENTROMERE AND ANTI-SCLERODERMA-70 ANTIBODIES WERE DETERMINED IN 44 SUCH WORKERS. 21 OF THESE HAD SEVERE AND 23 MILD FORMS OF VINYL-CHLORIDE DISEASE. 50 PATIENTS WITH "CLASSICAL" SCLERODERMA AND 148 HEALTHY HOSPITAL WORKERS ACTED AS CONTROLS. 11 OF THE 21 PATIENTS CLASSIFIED AS HAVING SEVERE VC DISEASE WERE DR3 POSITIVE,AND 8 OF THESE HAD BOTH B8 AND DR3 ANTIGENS. NONE OF THE 23 PATIENTS WITH MILD DISEASE CARRIED EITHER ANTIGEN. THE HLA-ANTIGEN FREQUENCIES IN VC DISEASE MIRRORED THOSE FOUND IN SCLERODERMA (RAISED DR5 FREQUENCY AND INCREASED LINKAGE DISEQUILIBRIUM BETWEEN B8 AND DR3). THERE WERE, HOWEVER, SIGNIFICANT DIFFERENCES IN THE FREQUENCY OF AUTOANTIBODIES IN THE TWO CONDITIONS.
 DESCRIPTORS ***** SCLERODERMA;VINYL CHLORIDE MONOMER;HUMANS;EFFECTS;
 HELD TERMS THE LANCET;GUY'S HOSPITAL(LONDON);HAMMERSMITH HOSPITAL(LONDON);
 REVIEW YEAR 1990

Item 233

ACCESSION NUMBER 1703
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT HEPATIC ANGIOSARCOMA FROM VINYL CHLORIDE. REPORT OF A NEW ITALIAN CASE
 AUTHOR/AFFILIATION CHIAPPINO G,NONE;BERTAZZI PA,NONE;BARONI M,NONE;MASINI T,NONE;
 ORIGIN NONE,VOL 6 PP.555-563;
 DATE 1982
 ABSTRACT THE FOURTH CASE OF ANGIOSARCOMA OF THE LIVER AMONG WORKERS EXPOSED TO VINYL CHLORIDE IN ITALY IS REPORTED. THE CASE WAS A 43 YEARS OLD MAN WHO WORKED FROM 1959 TO 1980 IN A VCM/PVC PRODUCTION PLANT, MOSTLY IN THE POLYMERIZATION AREA. HE DIED IN MARCH 1981, FOUR MONTHS AFTER DIAGNOSIS, FOR A MASSIVE HAEMOPERITONEUM. POST MORTEM EXAMINATION WAS PERFORMED. ACCORDING TO FOUR INDEPENDENT PATHOLOGISTS THE HISTOLOGIC APPEARANCE WAS TYPICAL OF A HIGHLY DEVIATING ANGIOSARCOMA. THE TUMOR DEVELOPED AFTER A SCLEROTIC LIVER LESIONS WAS ALREADY PRESENT. THE ANGIOSARCOMA WAS PROBABLY POLYCENTRIC, HAD A HIGH DEGREE OF MALIGNANCY AND A RAPID LOCAL EVOLUTION WHILE, IN CONTRAST, NO METASTASES WERE DETECTED.
 DESCRIPTORS ***** ANGIOSARCOMA;VINYL CHLORIDE MONOMER;HUMANS;EFFECTS;
 HELD TERMS MED LAVORO;
 REVIEW YEAR 1990

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ACCESSION NUMBER 1701
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT DRUG-INDUCED VASCULAR LESIONS OF THE LIVER
 AUTHOR/AFFILIATION ZAFRANI ES,NONE;PINAUDEAU Y,NONE;DHUMEAUX D,NONE;
 ORIGIN NONE,VOL 143 PP.495-502;
 DATE 1983, MARCH
 ABSTRACT THE VASCULAR LESIONS OF THE LIVER DESCRIBED IN ASSOCIATION WITH DRUG AND TOXIC SUBSTANCE EXPOSURE ARE REVIEWED WITH SPECIAL REFERENCE TO THE ABNORMALITIES OF THE FOLLOWING:(1) THE HEPATIC VENOUS EFFERENT SYSTEM (IE,LARGE AND SMALL HEPATIC VEIN OBSTRUCTION);(2) THE SINUSOIDS (IE,SINUSOIDAL DILATATION, PELIOSIS,PERISINUSOIDAL FIBROSIS); (3) THE PORTAL VEIN AND ITS BRANCHES; NO (4) THE HEPATIC ARTERIAL TREE. DRUG-INDUCED VASCULAR TUMORS OF THE LIVER AND VASCULAR CHANGES OBSERVED WITHIN NONVASCULAR TUMORS OF THE LIVER ARE ALSO ENVISAGED. FINALLY, THE PATHOPHYSIOLOGIC MECHANISMS OF ALL THESE LESIONS ARE CONSIDERED. THE AWARENESS OF THIS TYPE OF HEPATOTOXICITY AND THE KNOWLEDGE OF ITS EPIDEMIOLOGY SEEM TO BE ESSENTIAL FOR BOTH ITS EARLY DETECTION AND PREVENTION.

DESCRIPTORS ***** VINYL CHLORIDE MONOMER;LIVER;EFFECTS;ANGIOSARCOMA;
 HELD TERMS BUDD-CHIARI SYNDROME;VENO-OCCLUSIVE DISEASE;PELIOSIS HEPATIS; ARCH INTERN MED;
 REVIEW YEAR 1990

Item 235

ACCESSION NUMBER 1700
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT VINYL CHLORIDE-INDUCED HEPATIC LESIONS IN MAN AND RODENTS. A COMPARISON
 AUTHOR/AFFILIATION POPPER H,NONE;MALTONI C,NONE;SELIKOFF IJ,CITY UNIV OF NEW YORK;
 ORIGIN NONE,VOL 1 PP.7-20;
 DATE 1981
 ABSTRACT HISTOLOGIC SEQUENCES IN THE LIVER OF RODENTS EXPOSED BY INHALATION TO GASEOUS VINYL CHLORIDE WERE COMPARED TO THE LESIONS IN MAN EXPOSED TO THE SAME AGENT, MAINLY IN VINYL CHLORIDE POLYMERIZATION PLANTS. AN IDENTICAL SEQUENCE,STARTING WITH CIRCUMSCRIBED PROLIFERATION OF HEPATOCYTES,SOON FOLLOWED BY PROLIFERATION OF A VARIETY OF SINUSOIDAL CELLS AND FREQUENTLY ASSOCIATED WITH SINUSOIDAL DILATATION,PROGRESSES TO INTRALOBULAR AND MORE FREQUENTLY TO TRABECULAR ANGIOSARCOMA. PREDOMINANTLY IN YOUNG ANIMALS AND RARELY IN MAN, HEPATOCELLULAR CARCINOMA DEVELOPS, BUT NEVER CIRRHOSIS. THE SEQUENCE REPRESENTS A DYNAMIC PROCESS OF COMPETITION BETWEEN PROLIFERATING HEPATOCYTES AND SINUSOIDAL CELLS, OF HEPATOCYTES WITH FIBROPLASIA,BETWEEN PERISINUSOIDAL FIBROSIS AND SINUSOIDAL DILATATION,AND OF PROLIFERATION OF VARIOUS SINUSOIDAL CELLS VERSUS ANGIOSARCOMA. THE GREAT SIMILARITY IN THE EVOLUTION IN MAN AND RODENTS,RARELY ENCOUNTERED IN OTHER EXPERIMENTAL MODELS, SUPPORTS THE PREDICTION OF HUMAN CANCER FROM ANIMAL EXPERIMENTS. THE PRECURSOR NODULES DIFFER FROM THE NODULES COMMONLY OBSERVED IN HEPATOCARCINOGENESIS BY CO-PROLIFERATION OF SINUSOIDAL CELLS. THE DIFFERENCES IN THE REACTIONS BETWEEN MAN AND RODENTS BESPEAK A STRONG FIBROBLASTIC REACTIVITY IN MAN. MOST IMPORTANT, THE PRECURSOR LESION OF MIXED HEPATOCELLULAR AND SINUSOIDAL CELL PROLIFERATION MAY BE OF DIAGNOSTIC VALUE, BEING SUPERIOR TO CONVENTIONAL HEPATIC TESTS IN DETECTION OF SOME INITIAL ENVIRONMENTAL LESIONS.

DESCRIPTORS ***** VINYL CHLORIDE MONOMER;LIVER;EFFECTS;HUMANS;RAT;PATHOLOGY; MICE;
 HELD TERMS LIVER PUBLICATION;INSTITUTE OF ONCOLOGY (ITALY);STRATTON LAB; RODENTS;
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ACCESSION NUMBER 1699
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT THE TOXICITY OF VINYL CHLORIDE AS DETERMINED BY REPEATED EXPOSURE OF LABORATORY ANIMALS
 AUTHOR/AFFILIATION TORKELSON TR,DOM CHEMICAL CO,JOYEN F,SAME,IRONE VK,SAME,
 ORIGIN AMERICAN INDUSTRIAL HYGIENE ASSOCIATION,VOL 22 NO.5 PP.354-361;
 DATE 1961, OCTOBER
 ABSTRACT GROUPS OF LABORATORY ANIMALS WERE EXPOSED REPEATEDLY FOR UP TO SIX MONTHS TO EITHER 500,200,100 OR 50 PPM VINYL CHLORIDE IN AIR. DETECTABLE CHANGES OCCURRED AT ALL BUT THE LOWEST CONCENTRATION. THE RESULTS ARE DISCUSSED AND HANDLING PRECAUTIONS SUGGESTED.
 DESCRIPTORS ***** VINYL CHLORIDE MONOMER;EFFECTS;RAT;RABBIT;GUINEA PIG;SUBACUTE;
 REVIEW YEAR 1990

Item 237

ACCESSION NUMBER 1696
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT PROGRESSION OF VINYL CHLORIDE INDUCED HEPATIC FIBROSIS TO ANGIOSARCOMA OF THE LIVER
 AUTHOR/AFFILIATION JONES DB,NONE,SMITH PM,NONE,
 ORIGIN NONE,VOL 39 PP.306-307;
 DATE 1982
 ABSTRACT TWO VINYL CHLORIDE MONOMER (VCM) WORKERS, WHO DEVELOPED NON-CIRRHOTIC PORTAL FIBROSIS AND PORTAL HYPERTENSION,DIED FROM ANGIOSARCOMA OF THE LIVER FIVE AND TEN YEARS LATER RESPECTIVELY, DESPITE WITHDRAWAL FROM OCCUPATIONAL EXPOSURE. WE SUGGEST THAT NON-CIRRHOTIC PORTAL FIBROSIS CAUSED BY EXPOSURE TO VCM IS POTENTIALLY PREMALIGNANT AND THAT THOSE WORKERS WHO ALREADY HAVE THE CONDITION SHOULD BE CAREFULLY MONITORED.
 DESCRIPTORS ***** HUMANS;EFFECTS;VINYL CHLORIDE MONOMER;LIVER;ANGIOSARCOMA;
 HELD TERMS BRITISH J OF INDUSTRIAL MEDICINE;LLANDOUGH HOSPITAL (UK);
 REVIEW YEAR 1990

Item 238

ACCESSION NUMBER 1691
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT CARCINOGENICITY AND EPIDEMIOLOGICAL PROFILE ANALYSIS OF VINYL CHLORIDE AND POLYVINYL CHLORIDE
 AUTHOR/AFFILIATION KALMAZ EE,UNIVERSITY OF TEXAS,KALMAZ GD,NONE;
 ORIGIN NONE,VOL 4 PP.13-27;
 DATE 1984
 ABSTRACT THIS IS A VERY BAD REVIEW OF THE CARCINOGENICITY/EPIDEMIOLOGY DATA ON VCM/PVC. CONSIDERATION WAS GIVEN TO HAVING PATRICIA BUFFLER AND MARCUS KEY DO A CRITIQUE,BUT THEIR TRIP TO CHINA PUT THIS ON HOLD IN DEFINITELY.
 DESCRIPTORS ***** POLYVINYL CHLORIDE;VINYL CHLORIDE MONOMER;CANCER;HUMANS;EFFECTS;EPIDEMIOLOGY;
 HELD TERMS REGULATORY TOXICOLOGY & PHARMACOLOGY; UNIV OF TENNESSEE;
 REVIEW YEAR 1990

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ACCESSION NUMBER 1690
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT VINYL CHLORIDE EXPOSURE AND ANGIOSARCOMA OF THE LIVER-- A REPORT OF THE ICI REGISTER OF CASES
AUTHOR/AFFILIATION DOLL SIR RICHARD,NONE;
ORIGIN NONE,NONE;
DATE 1984
ABSTRACT THE AUTHORS PREDICT ANOTHER 150-200 DEATHS FROM VCM RELATED ANGIOSARCOMA. THIS PROJECT IS BEING SUPPORTED BY SPI.
DESCRIPTORS ***** VINYL CHLORIDE MONOMER;ANGIOSARCOMA;HUMANS;EFFECTS;EPIDEMIOLOGY;
COMMENTS RKH(85) DRAFT OF AN ARTICLE TO BE PUBLISHED
REVIEW YEAR 1987

Item 240

ACCESSION NUMBER 1689
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE: A CANCER CASE STUDY
AUTHOR/AFFILIATION PURCHASE IFH,NONE;STAFFORD J,NONE;PADDLE GM,NONE;
ORIGIN NONE,NONE;
DATE 1984
DESCRIPTORS ***** VINYL CHLORIDE MONOMER;CANCER;ANGIOSARCOMA;HUMANS;EFFECTS;RISK ASSESSMENT;EPIDEMIOLOGY;
REVIEW YEAR 1987

Item 241

ACCESSION NUMBER 1688
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT INCIDENCE OF CANCER AMONG VINYL CHLORIDE AND POLYVINYL CHLORIDE WORKERS
AUTHOR/AFFILIATION HELDAAS SS,NONE;LANGARD SL,NONE;ANDERSEN A,NONE;
ORIGIN NONE,VOL 41 PP.25-30;
DATE 1984
ABSTRACT THE RESULTS OF A FOLLOW UP STUDY OF THE INCIDENCE OF CANCER AND THE MORTALITY IN A COHORT OF 454 MALE WORKERS PRODUCING VINYL CHLORIDE AND POLYVINYL CHLORIDE ARE PRESENTED. THE STUDY POPULATION WAS REESTRICTED TO EMPLOYEES WITH MORE THAN ONE YEAR'S WORK EXPERIENCE IN THE STUDY PLANT BETWEEN 1950 AND 1969 AND THE COHORT WAS FOLLOWED UP FROM 1953 TO THE END OF 1979. TWENTY THREE NEW CASES OF CANCER WERE OBSERVED COMPARED WITH 20-2 EXPECTED;ONE CASE OF LIVER ANGIOSARCOMA WAS FOUND. FIVE CASES OF LUNG CANCER WERE FOUND (2.8 EXPECTED) AND FOUR CASES OF MALIGNANT MELANOMA OF THE SKIN WERE OBSERVED (0-8 EXPECTED). THE POSSIBILITY OF A CAUSAL RELATIONSHIP BETWEEN EXPOSURE TO VINYL CHLORIDE AND THE DEVELOPMENT OF MALIGNANT MELANOMAS IS DISCUSSED.
DESCRIPTORS ***** VINYL CHLORIDE MONOMER;POLYVINYL CHLORIDE;HUMANS;EFFECTS;EPIDEMIOLOGY; CANCER;
HELD TERMS BRITISH J OF INDUSTRIAL MEDICINE; MELANOMAS
REVIEW YEAR 1990

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Item 242

ACCESSION NUMBER 1687
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT VINYL CHLORIDE: THE EVIDENCE FOR HUMAN CARCINOGENICITY IN DIFFERENT TARGET ORGANS
AUTHOR/AFFILIATION SALMON AG,NONE;
ORIGIN NONE,VOL 42 NO.2PP.73-74;
DATE 1985, FEBRUARY
DESCRIPTORS ***** VINYL CHLORIDE MONOMER;POLYVINYL CHLORIDE;ETHYLENE DICHLORIDE;CANCER;EFFECTS;HUMANS;EPIDEMOLOGY;
HELD TERMS BRITISH J OF INDUSTRIAL MEDICINE;
REVIEW YEAR 1995

Item 243

ACCESSION NUMBER 1645
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT VCM FROM PVC DURING THERMAL DECOMPOSITION
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN UNION CARBIDE
DATE 1975
DESCRIPTORS ***** VCM; PVC;
HELD TERMS FRAGMENTOGRAPHY;
KMIC INDEX NUMBER 00713REPO
REVIEW YEAR 1990

Item 244

ACCESSION NUMBER 1374
FILE LOCATION GEN
DOCUMENT TYPE EPA REPORT
TITLE OR SUBJECT ASSOCIATION BETWEEN BIRTH DEFECTS AND EXPOSURE TO AMBIENT VINYL CHLORIDE
AUTHOR/AFFILIATION THERIAULT GP,NONE;ITURRA H,NONE;GINGRAS S,NONE;
ORIGIN EPA,REPORT NO. EPA 600/1-81-057;
DATE 1981, AUGUST
ABSTRACT SHAWINIGAN HAD AN EXCESS OF BIRTH DEFECTS WHICH FLUCTUATED SEASONALLY IN A WAY THAT COULD CORRESPOND TO CHANGES IN VCM CONCENTRATION IN THE ENVIRONMENT. MOTHERS WHO GAVE BIRTH TO MALFORMED CHILDREN WERE YOUNGER ON AVERAGE IN SHAWINIGAN THAN IN THE COMPARISON COMMUNITIES. HOWEVER, THERE WAS NO EXCESS OF STILLBIRTHS IN SHAWINIGAN, THE EXCESS OF BIRTH DEFECTS INVOLVED MOST SYSTEMS, AND VARIATION IN BIRTH-DEFECT RATES AMONG SCHOOL DISTRICTS COULD NOT BE ACCOUNTED FOR BY ESTIMATES OF VCM IN THE ATMOSPHERE. THE OCCUPATIONAL AND RESIDENTIAL HISTORIES OF PARENTS WHO GAVE BIRTH TO MALFORMED INFANTS WERE COMPARED WITH THOSE OF PARENTS OF NORMAL INFANTS. THE TWO GROUPS DID NOT DIFFER IN OCCUPATIONAL EXPOSURE OR CLOSENESS OF RESIDENCE TO THE VINYL CHLORIDE POLYMERIZATION PLANT.
DESCRIPTORS ***** VCM;BIRTH DEFECTS;HUMAN;EPIDEMOLOGY;EFFECTS;
HELD TERMS LAVAL UNIV;
REVIEW YEAR 1991

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ACCESSION NUMBER 1370
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PRENATAL SUSCEPTIBILITY TO CARCINOGENESIS BY XENOBIOTIC SUBSTANCES INCLUDING VINYL CHLORIDE
AUTHOR/AFFILIATION RICE JM,NCI;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 41 PP.179-188;
DATE 1981, OCTOBER
ABSTRACT THE CARCINOGENICITY OF VINYL CHLORIDE FOR EXPERIMENTAL ANIMALS WHEN ADMINISTERED TRANSPLENTALLY IS REVIEWED IN COMPARISON WITH KNOWN TRANSPLENTAL CARCINOGENS, INCLUDING THOSE THAT, LIKE VINYL CHLORIDE, ARE DEPENDENT ON ENZYME-MEDIATED METABOLIC CONVERSION TO A REACTIVE INTERMEDIATE IN MATERNAL OR FETAL TISSUES. VINYL CHLORIDE IS CONVERTED BY MIXED-FUNCTION OXIDASES TO THE REACTIVE METABOLITE CHLOROOXIRANE,THE CARCINOGENICITY OF WHICH IS ALSO REVIEWED. VINYL CHLORIDE IS UNEQUIVOCALLY A TRANSPLENTAL CARCINOGEN FOR THE RAT. NO EVIDENCE EXISTS, HOWEVER, TO SUPPORT THE HYPOTHESIS THAT EXPOSURE OF MALE RATS TO VINYL CHLORIDE OR ANY OTHER CARCINOGEN CONFERS AN INCREASED RISK OF TUMOR DEVELOPMENT ON THEIR PROGENY. MANY STRUCTURAL ANALOGS OF VINYL CHLORIDE, I.E., SUBSTITUTED ETHYLENES, ARE ALSO CARCINOGENIC FOR ADULT ANIMALS, AND CAN WITH CONFIDENCE LIKEWISE BE PREDICTED TO BE EFFECTIVE TRANSPLENTAL CARCINOGENS. ALSO REFER TO AN83864 (PAPER/KHIC 04589).
DESCRIPTORS ***** TRANSPLENTAL CARCINOGEN;VCM;FETAL TOXICITY;RAT; CARCINOGENICITY;
REVIEW YEAR 1991

Item 246

ACCESSION NUMBER 1367
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SCIENTIFIC AND TECHNICAL ASSESSMENT REPORT ON VINYL CHLORIDE AND POLYVINYL CHLORIDE
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN EPA,600/6-75-004;
DATE 1975, JUNE
DESCRIPTORS ***** PVC;VCM;HUMAN;EFFECTS;ANALYSIS;RISK ASSESSMENT;EMISSIONS;
REVIEW YEAR 1990

Item 247

ACCESSION NUMBER 1366
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT INFLUENCE OF EXPOSURE MODE ON VINYL CHLORIDE ACTION
AUTHOR/AFFILIATION JEDRYCHOWSKI RA,NONE;SOKAL JA,NONE;CHMIELNICKA J,NONE;
ORIGIN ARCH TOXICOL,VOL 55 PP.195-198;
DATE 1984
ABSTRACT RATS WERE SUBJECTED TO 4 HOURS CONTINUOUS OR INTERMITTENT EXPOSURE TO VINYL CHLORIDE (VC) AT DIFFERENT TIME-WEIGHTED AVERAGE CONCENTRATIONS (15,50,150,500 AND 15,000 MG/M3). AT AVERAGE CONCENTRATIONS OF 50 MG/M3 AND 150 MG/M3, THE URINARY EXCRETION OF TDGA UNDER CONTINUOUS EXPOSURE DID NOT DIFFER FROM THAT UNDER INTERMITTENT EXPOSURE,WHEREAS AT VC CONCENTRATIONS OF 500 MG/M3 AND 15,000 MG/M3 IT WAS HIGHER FOLLOWING CONTINUOUS EXPOSURE.

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DESCRIPTORS ***** VCM;RATS;INHALATION;METABOLISM;EFFECTS;
HELD TERMS MEDICAL ACADEMY (POLAND);
REVIEW YEAR 1991

Item 248

ACCESSION NUMBER 1365
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EXPERIMENTAL CONTRIBUTIONS IN IDENTIFYING BRAIN POTENTIAL CARCINOGENS IN THE PETROCHEMICAL
INDUSTRY
AUTHOR/AFFILIATION MALTONI C,NONE;CILIBERTI A,NONE;CARRETTI D,NONE;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,PP.216-249;
DATE 1982
DESCRIPTORS ***** CARCINOGENICITY;BRAIN;TUMORS;EFFECTS;VCM;ACRYLONITRILE;BIS-CHLOROMETHYL ETHER;HYDRAZINE;TRIAZINE;
HELD TERMS AROMATIC HYDROCARBONS;NITROSOUREAS;INSTITUTE OF ONCOLOGY (ITALY);
REVIEW YEAR 1991

Item 249

ACCESSION NUMBER 1364
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT THE 1955-1959 U.S. MORTALITY TABLES FOR AGE 85 AND OVER
AUTHOR/AFFILIATION ARMSTRONG B,NONE;GREENBURG D,NONE;
ORIGIN NONE
DATE 1978, JUNE
ABSTRACT MORTALITY TABLES FOR U.S. POPULATION. USED FOR RISK ASSESSMENT OF VCM FOR THE CALIFORNIA AMBIENT
AIR STANDARD.
DESCRIPTORS ***** VCM;RISK ASSESSMENT;MORTALITY;
HELD TERMS U.S.BUREAU OF VITAL STATISTICS; STATISTICS;
REVIEW YEAR 1990

Item 250

ACCESSION NUMBER 1363
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE EFFECTS OF ORGANIC COMPOUNDS USED IN THE MANUFACTURE OF PLASTICS ON THE RESPONSIVITY OF
MURINE AND HUMAN LYMPHOCYTES
AUTHOR/AFFILIATION THURMAN GB,UNIV OF TEXAS;SIMMS BG,SAME;GOLDSTEIN AL,SAME;KILIAN DJ,SAME;
ORIGIN TOX AND APPLIED,VOL 44 PP.617-641;
DATE 1978
ABSTRACT THE EFFECTS OF ACUTE EXPOSURE TO A NUMBER OF INDUSTRIALLY IMPORTANT ORGANIC COMPOUNDS ON THE
IMMUNOLOGICAL RESPONSES OF HUMAN AND MURINE LYMPHOCYTES WERE STUDIED. THE COMPOUNDS WERE BENZENE,
1-4-DIOXANE, TOLUENE DIISOCYANATE (TDI),VINYL CHLORIDE ,ETHYLENIMINE, AND EPICHLOROHYDRIN.
CONTROL COMPOUNDS KNOWN TO HAVE IMMUNOLOGICAL EFFECTS WERE AZOTHIOPRINE, HYDROCORTISONE ACETATE,
AND TRIETHYLENE MELAMINE (TEN). THE UPTAKE OF TRITIATED THYMIDINE ((3H)TDR) OF LYMPHOCYTES WAS
USED TO MEASURE THEIR ABILITY TO RESPOND TO MITOGENIC AGENTS, ALLOGENEIC LYMPHOCYTES, OR THE
ANTIGENIC NATURE OF THE COMPOUNDS THEMSELVES. MOST OF THE COMPOUNDS WERE FOUND TO BE CYTOTOXIC TO

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LYMPHOCYTES AT HIGH CONCENTRATIONS. DIOXANE AND TDI SHOWED EVIDENCE OF SPECIFIC ACTIONS ON THE IMMUNOLOGICAL SYSTEM. DIOXANE SUPPRESSED T-CELL RESPONSES WHILE AUGMENTING B-CELL RESPONSES. TDI EXHIBITED STIMULATORY EFFECTS AT SEVERAL CONCENTRATIONS TO BOTH HUMAN AND MURINE LYMPHOCYTES. THESE FINDINGS INDICATE THAT OF THE CHEMICALS STUDIED, BOTH DIOXANE AND TDI HAVE PROPERTIES WHICH MAKE THEM CAPABLE OF AFFECTING LYMPHOCYTES IN WAYS OTHER THAN NONSPECIFIC CYTOTOXICITY. THESE PROPERTIES MAKE TDI AND DIOXANE ESPECIALLY INTERESTING WHEN MONITORING IMMUNOLOGICAL SYSTEMS OF INDUSTRIAL WORKERS WHO HAVE BEEN ACCIDENTALLY EXPOSED TO THESE COMPOUNDS AT HIGH CONCENTRATIONS OR WHO ARE ROUTINELY EXPOSED TO MINIMAL LEVELS OF THESE COMPOUNDS.

DESCRIPTORS ***** BENZENE,TDI,VCM,VDC,1,4-DIOXANE,EPI,IN VITRO,LYMPHOCYTES,EFFECTS,
HELD TERMS ETHYLENIMINE,IMMUNOLOGIC EFFECT, CYTOTOXICITY,
REVIEW YEAR 1990

Item 251

ACCESSION NUMBER 1362
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MITOCHONDRIAL CHANGES IN HEPATOCYTES OF RATS CHRONICALLY EXPOSED TO VINYL CHLORIDE AND ETHANOL
AUTHOR/AFFILIATION MILLER ML,UNIV OF CINCINNATI,RADIKE MJ,SAME,ANDRINGA A,SAME,BINGHAM E, SAME,
ORIGIN ENVIRONMENTAL RESEARCH,VOL 29 PP.272-279,
DATE 1982
ABSTRACT CHRONIC EXPOSURE OF MALE RATS TO 600 PPM VINYL CHLORIDE (VC) OR VC AND 5% ETHANOL (ETOH) IN DRINKING WATER INDUCED ULTRASTRUCTURAL CHANGES IN THE MITOCHONDRIA OF HEPATOCYTES. AFTER 6 MONTHS OF VC/ETOH TREATMENT, HEPATOCYTE MITOCHONDRIA OFTEN CONTAINED RIGID TUBULAR PARALLEL CRISTAE AND DILATED CRISTAE WITH DENSE INCLUSIONS,ETHANOL INGESTION ALONE DID NOT INDUCE THESE MORPHOLOGICAL CHANGES. IN ANIMALS RECEIVING VC ALONE, LARGE FLOCCULAR DENSITIES IN THE MITOCHONDRIAL MATRIX WERE SEEN OCCASIONALLY AFTER 6 MONTHS OF VC INHALATION. THE NUMBERS AND SEVERITY OF CHANGES IN MITOCHONDRIA INCREASED WITH DURATION OF EXPOSURE AND AGE. THE GREATEST RESPONSES OBSERVED IN MITOCHONDRIA OCCURRED WITH THE COMBINED TREATMENT OF VC/ETOH.

DESCRIPTORS ***** VCM,LIVER,RATS,ALCOHOL,DRINKING WATER,EFFECTS,CHRONIC,
REVIEW YEAR 1990

Item 252

ACCESSION NUMBER 1361
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EFFECTS OF INDUCERS ON THE IN VIVO COVALENT BINDING OF A VINYL CHLORIDE METABOLITE TO LIVER FRACTIONS
AUTHOR/AFFILIATION PESSAYRE D,NONE,MANDSCHEER JC,NONE,DESCATOIRE V,NONE,DOLDER A,NONE, BENHAMOU JP,NONE,
ORIGIN BIOCHEMICAL PHARMACOLOGY,VOL 28 PP.3667-3668,
DATE 1979
DESCRIPTORS ***** VCM,METABOLISM,COVALENT BINDING,IN VIVO,RATS,EFFECTS,
REVIEW YEAR 1990

Item 253

ACCESSION NUMBER 1360
FILE LOCATION GEN
DOCUMENT TYPE CORR

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TITLE OR SUBJECT PROCEDURES FOR THE DETERMINATION OF VCM IN PACIFIERS
AUTHOR/AFFILIATION O'HARA MM,BFG;
ORIGIN BFG-CHEMICAL,TO VINYL INSTITUTE;
DATE 1985, JANUARY 28
ABSTRACT TWO DIFFERENT LABORATORIES WERE ASKED TO DEVELOP AND CONDUCT EXTRACTION TESTS TO DETERMINE THE AMOUNT OF VCM THAT MIGRATE FROM PVC PACIFIERS. NINE OF TEN TESTS SHOWED THAT NO VCM (LESS THAN 50 PPT) MIGRATES INTO A SALIVA SIMULANT, WHILE THE TENTH SHOWED 120 PPT. BASED ON SAMPLE WEIGHT AND SALIVA SIMULANT WEIGHT, THE 120 PPT VALUE IN THE SALIVA IS EQUIVALENT TO 0.0033 UG, WHICH IS BELOW THE FDA ACCEPTABLE DAILY INTAKE OF 0.011 UG.
DESCRIPTORS ***** VCM;PVC;MIGRATION;EXTRACTION;
HELD TERMS PACIFIERS;
REVIEW YEAR 1992

Item 254

ACCESSION NUMBER 1359
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT RISK ASSESSMENT OF EXPOSURE TO VINYL CHLORIDE
AUTHOR/AFFILIATION STOTT MT,DOW CHEMICAL CO;MATANADE PG,SAME;
ORIGIN NONE,VOL 53 PP.593-595;
DATE 1981
DESCRIPTORS ***** VCM;RISK ASSESSMENT;HUMAN;EFFECTS;CARCINOGENICITY;
HELD TERMS PURE & APPL CHEM;
REVIEW YEAR 1991

Item 255

ACCESSION NUMBER 1357
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EPIDEMIOLOGIC CONSIDERATIONS IN THE DESIGN OF TOXICOLOGIC STUDIES: AN APPROACH TO RISK ASSESSMENT IN HUMANS
AUTHOR/AFFILIATION MOODS JS,NIH;
ORIGIN NONE,VOL 38 NO.5 PP.1892-1896;
DATE 1979, APRIL
ABSTRACT THIS PAPER DESCRIBES A SIX-STEP PROCEDURE FOR INCLUDING EPIDEMIOLOGIC CONSIDERATIONS IN BOTH THE DESIGN AND ANALYSIS OF LABORATORY TOXICITY STUDIES CONDUCTED TO ESTIMATE RISK OF TOXICITY IN HUMANS DURING LOW-LEVEL EXPOSURE TO CHEMICALS IN THE ENVIRONMENT.
DESCRIPTORS ***** RISK ASSESSMENT;EPIDEMIOLOGY;VCM;HUMAN;EFFECTS;CARCINOGENICITY;
HELD TERMS FEDERATION PROCEEDINGS;
REVIEW YEAR 1991

Item 256

ACCESSION NUMBER 1356
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ONCOGENIC AND MUTAGENIC RISKS IN COMMUNITIES WITH POLYVINYL CHLORIDE PRODUCTION FACILITIES
AUTHOR/AFFILIATION INFANTE PF,NONE;

BFG52003

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ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES
 DATE 1976
 ABSTRACT AN EXCESS NUMBER OF BIRTH DEFECTS WAS REPORTED FOR COMMUNITIES WITH PVC PRODUCTION FACILITIES. THIS WORK HAS BEEN CRITICIZED AS "EPIDEMIOLOGIC GERRYMANDERING". SEE THE REVIEW (KMIC 03648) BY BRIAN MAC MAHON, HARVARD. ALSO REFER TO AN#2201(KMIC 01433) INFANTE'S PAPER.
 DESCRIPTORS ***** VCM;PVC;BIRTH DEFECTS;HUMAN;EFFECTS;EPIDEMIOLOGY;
 HELD TERMS OHIO DEPT OF HEALTH;
 REVIEW YEAR 1991

Item 257

ACCESSION NUMBER 1348
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT CALCULATIONS OF THE AMOUNT OF VCM METABOLIZED AT VARIOUS CONCENTRATIONS
 AUTHOR/AFFILIATION HINDERER RK,BFG;
 ORIGIN BFG
 DATE 1978
 DESCRIPTORS ***** VCM;METABOLISM;
 REVIEW YEAR 1990

Item 258

ACCESSION NUMBER 1344
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT BIOCHEMICAL ALTERATIONS IN LIVERS OF RATS EXPOSED TO VINYL CHLORIDE
 AUTHOR/AFFILIATION DU JT,UNIV OF LOUISVILLE;SANDOZ JP,SAME;TSENG MT,SAME;TAMBURO CH,SAME;
 ORIGIN J OF TOXICOLOGY AND ENVIRONMENTAL HEALTH,VOL 5 PP.1119-1132;
 DATE 1979
 ABSTRACT SPRAGUE-DAWLEY RATS WERE EXPOSED TO VINYL CHLORIDE TO DETERMINE THE EARLIEST SEQUENTIAL BIOCHEMICAL CHANGES OCCURRING WITH LIVER INJURY BEFORE ANGIOSARCOMA DEVELOPMENT.THERE WERE NO CHANGES IN SEVEN CONVENTIONAL CLINICAL BIOCHEMICAL LIVER TESTS OR IN FOUR OTHER MARKERS OF LIVER MITOCHONDRIAL, CYTOSOL, AND MICROSOMAL FUNCTION. NO SIGNIFICANT HISTOLOGICAL CHANGES WERE FOUND ON LIGHT MICROSCOPIC EXAMINATION DURING THIS EXPOSURE PERIOD. HOWEVER, WITH ELECTRON MICROSCOPY, DILATION OF ROUGH ENDOPLASMIC RETICULUM WAS SEEN IN THE ANIMALS EXPOSED FOR MORE THAN 137 HRS.
 DESCRIPTORS ***** VCM;LIVER;RATS;ANGIOSARCOMA;
 REVIEW YEAR 1990

Item 259

ACCESSION NUMBER 1343
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT NEOPLASTIC RISK AMONG WORKERS EXPOSED TO VINYL CHLORIDE
 AUTHOR/AFFILIATION MAXMEIER RJ,NIOSH;STRINGER M,SAME;WAGONER JK,SAME;JONES J,SAME; FALK H,CDC;CARTER C,SAME;
 ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,PP.40-48;
 DATE 1976
 ABSTRACT IN THE PRESENT STUDY OF WORKERS EXPOSED TO VINYL CHLORIDE, AN EXCESSIVE NUMBER OF DEATHS DUE TO CANCER OF THE SAME FOUR SITES WAS FOUND, VIZ THE LIVER,LUNG,AND THE LYMPHATIC AND CENTRAL NERVOUS

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SYSTEM. THE EVIDENCE, BOTH EPIDEMIOLOGICALLY AND HISTOPATHOLOGICALLY, POINTS TO VINYL CHLORIDE AS THE CAUSAL AGENT IN THE ETIOLOGY OF SUCH EXCESSIVE CANCER RISK. THE OBSERVATION OF THE CARCINOGENICITY OF VINYL CHLORIDE, FIRST IN ANIMALS AND SUBSEQUENTLY IN MAN, STRONGLY SUPPORTS THE NEED FOR CONDUCTING ANIMAL BIOASSAY PRIOR TO INTRODUCTION OF CHEMICAL AND OTHER AGENTS INTO THE INDUSTRIAL OR COMMUNITY ENVIRONS. SEE ALSO KMIC04825 (PAPER).

DESCRIPTORS ***** VCM;HUMAN;EFFECTS;CARCINOGENICITY;EPIDEMIOLOGY;
 REVIEW YEAR 1991

Item 260

ACCESSION NUMBER 1311
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT EPIDEMIOLOGICAL STUDY OF VINYL CHLORIDE WORKERS :FINAL REPORT.
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE
 DATE 1978, JANUARY
 ABSTRACT EPIDEMIOLOGY STUDY OF U.S. VCM/PVC WORKERS SHOWS INCREASE IN CARDIOVASCULAR AND RENAL DISEASE. THIS STUDY SUPPORTS THE HYPOTHESIS THAT VCM CAUSES LIVER,LUNG AND BRAIN CANCER.
 DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;EPIDEMIOLOGY;
 HELD TERMS EQUITABLE ENVIRONMENTAL HEALTH INC;
 REVIEW YEAR 1990

Item 261

ACCESSION NUMBER 1310
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT EPIDEMIOLOGIC STUDY OF VINYL CHLORIDE WORKERS EMPLOYED BY UNION CARBIDE CORPORATION,SOUTH CHARLESTON PLANT
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE,FOR UNION CARBIDE CORP;
 DATE 1976, DECEMBER
 DESCRIPTORS ***** VCM;HUMAN;EFFECTS;EPIDEMIOLOGY;
 HELD TERMS EQUITABLE ENVIRONMENTAL HEALTH INC;
 REVIEW YEAR 1990

Item 262

ACCESSION NUMBER 1309
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT RESULTS OF PROSPECTIVE MORTALITY STUDY ON HUMANS EXPOSED TO VC/PVC
 AUTHOR/AFFILIATION FRENTZEL-BEYME VR,NONE;SCHMITZ T,NONE;THIESS AM,NONE;
 ORIGIN NONE,NONE;
 DATE 1978, OCTOBER
 DESCRIPTORS ***** PVC;VCM;HUMAN;EFFECTS;EPIDEMIOLOGY;
 REVIEW YEAR 1991

20867087

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ACCESSION NUMBER 1308
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CONTEMPORARY PEST CONTROL PRACTICES AND PROSPECTS - VOL 1: CARCINOGENESIS IN MAN AND LABORATORY ANIMALS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE
DATE 1975
ABSTRACT STATEMENT MADE WITH REFERENCE TO VCM THAT ANIMALS OVERESTIMATE RISK OF CANCER.
DESCRIPTORS ***** VCM,EFFECTS,CARCINOGENICITY;
HELD TERMS RODENTS; NATIONAL ACADEMY OF SCIENCES,NAS;
REVIEW YEAR 1991

Item 264

ACCESSION NUMBER 1304
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT AN EPIDEMIOLOGIC INVESTIGATION OF LUNG CANCER IN A MULTIXENOBIOTIC OCCUPATIONAL ENVIRONMENT
AUTHOR/AFFILIATION MAXHEILER RJ,UNIV OF NORTH CAROLINA;
ORIGIN UNIV OF NORTH CAROLINA
DATE 1978
ABSTRACT AN EXCESS LUNG CANCER RISK (39 OBSERVED AND 27 EXPECTED) WAS OBSERVED AMONG A COHORT OF 4806 MALES EMPLOYED AT A SYNTHETIC CHEMICAL PLANT SINCE IT OPENED IN 1942. UPON REVIEW OF THE PATHOLOGIC MATERIAL, THE EXCESS WAS FOUND TO BE LIMITED TO ADENOCARCINOMA AND LARGE CELL UNDIFFERENTIATED LUNG CANCER. MANY OF THE WORKERS WERE EXPOSED TO VINYL CHLORIDE, BUT OTHER EXPOSURES INCLUDING CHLORINATED SOLVENTS, POLYVINYL CHLORIDE (PVC) DUST, ACRYLATES, AND ACRYLONITRILE EXISTED. THUS, DETAILED WORK HISTORIES OF EACH COHORT MEMBER ALONG WITH EXPOSURE RATINGS OF EACH JOB FOR EACH CALENDAR YEAR SINCE 1942 FOR EACH OF NINETEEN DIFFERENT CHEMICALS (OR CHEMICAL GROUPS) WERE OBTAINED. A SERIAL ADDITIVE EXPECTED DOSE MODEL WAS CONSTRUCTED WHICH COMPARED THE DOSES OF THE CHEMICALS OBSERVED FOR THE LUNG CANCER CASES TO THE DOSES EXPECTED BASED ON SUBCOHORTS INDIVIDUALLY MATCHED TO THE CASES. PVC DUST APPEARED TO BE THE MOST LIKELY ETIOLOGIC AGENT. OBSERVED AND EXPECTED DOSES WERE THEN ANALYZED BY YEAR BEFORE DEATH TO UNCOVER THE RELEVANT LATENT PERIOD.
DESCRIPTORS ***** PVC DUST,VCM,LUNG,CARCINOGENICITY,EPIDEMIOLOGY,HUMAN,EFFECTS;
REVIEW YEAR 1991

Item 265

ACCESSION NUMBER 1293
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT THE MEDICAL COMMISSION ON THE PRODUCTION OF PVC.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,NONE;
DATE 1974, DECEMBER
ABSTRACT WE CONSIDER IT AN ESTABLISHED FACT THAT VINYL CHLORIDE CAN CAUSE CANCER IN HUMANS. NO HUMAN

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ACTIVITY, JOB OR HABIT IS WITHOUT SOME RISK, AND WE SHOULD AVOID SETTING UP RULES OR OPINIONS
 WHICH WOULD ONLY SERVE TO EXCHANGE ONE KIND OF HAZARD FOR ANOTHER OF POSSIBLY GREATER DIMENSION.

DESCRIPTORS ***** VCM;CANCER;HUMAN;EFFECTS;
 HELD TERMS NORSE HYDRO (NORWAY;
 REVIEW YEAR 1990

Item 266

ACCESSION NUMBER 1292
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT PRELIMINARY REPORT ON THE MEDICAL EXAMINATION OF 288 EMPLOYEES AT THE PVC PLANT, NORSE HYDRO A.S,
 PORSGRUNN FABRIKKER
 HILLESTAD L,NONE;
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE,NONE;
 DATE 1975, JANUARY 31
 ABSTRACT CHROMOSOMAL ABERRATIONS SEEN IN VCM/PVC WORKERS.
 DESCRIPTORS ***** VCM;PVC;CHROMOSOMAL ABERRATION;CARCINOGENICITY;HUMAN;EFFECTS; MUTAGENICITY;
 HELD TERMS NORSE HYDRO (NORWAY)
 REVIEW YEAR 1990

Item 267

ACCESSION NUMBER 1291
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS III. A CLINICAL STUDY
 AUTHOR/AFFILIATION DODSON VN,NONE;DINMAN BD,NONE;WHITEHOUSE MM,NONE;NASR AHM,NONE; MAGNUSON HJ,NONE;
 ORIGIN ARCH ENVIRON HEALTH,VOL 22;
 DATE 1971, JANUARY
 DESCRIPTORS ***** ACROOSTEOLYSIS;VCM;HUMAN;EFFECTS;
 REVIEW YEAR 1990

Item 268

ACCESSION NUMBER 1290
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS II. AN INDUSTRIAL HYGIENE STUDY
 AUTHOR/AFFILIATION COOK MA,NONE;GIEVER PH,NONE;DINMAN BD,NONE;MAGNUSON HJ,NONE;
 ORIGIN ARCH ENVIRON HEALTH,VOL 22;
 DATE 1971, JANUARY
 DESCRIPTORS ***** ACROOSTEOLYSIS;HUMAN;EFFECTS;VCM;
 REVIEW YEAR 1990

Item 269

ACCESSION NUMBER 1289
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION

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TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS: I. AN EPIDEMIOLOGICAL STUDY
AUTHOR/AFFILIATION DINMAN BD,NONE;COOK WA,NONE;WHITEHOUSE NM,NONE;MAGNUSON HJ,NONE; DITCHECK T,NONE;
ORIGIN ARCH ENVIRON HEALTH,VOL 22;
DATE 1971, JANUARY
DESCRIPTORS ***** ACROOSTEOLYSIS;VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;
REVIEW YEAR 1990

Item 270

ACCESSION NUMBER 1287
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT VINYL CHLORIDE CONTENT OF SUBCUTANEOUS ADIPOSE TISSUE FROM VINYL CHLORIDE POLYMERIZATION WORKERS
AUTHOR/AFFILIATION KNITTLE JL,CITY UNIV OF NEW YORK;FONTANARES P,SAME;DAUM S,SAME;SELIKOFF IJ, SAME;
ORIGIN NONE
DATE 1974, DECEMBER
ABSTRACT SIGNIFICANT LEVELS OF VINYL CHLORIDE MONOMER WERE FOUND IN SUBCUTANEOUS FAT DEPOTS OF WORKERS EXPOSED TO THE GAS DURING THE MANUFACTURE OF POLYVINYL CHLORIDE. THE COMPOUND WAS NOT DETECTED IN A CONTROL GROUP OF UNEXPOSED WORKERS.
DESCRIPTORS ***** VCM;EFFECTS;HUMAN;FAT;
REVIEW YEAR 1990

Item 271

ACCESSION NUMBER 1278
FILE LOCATION GEN
DOCUMENT TYPE GUIDELINES
TITLE OR SUBJECT VINYL CHLORIDE :CODE OF PRACTICE FOR HEALTH PRECAUTIONS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN HEALTH AND SAFETY EXECUTIVE,PP.1-41;
DATE 1975, FEBRUARY
DESCRIPTORS ***** VCM;
REVIEW YEAR 1990

Item 272

ACCESSION NUMBER 1277
FILE LOCATION GEN
DOCUMENT TYPE BIBLIOGRAPHY
TITLE OR SUBJECT HEALTH EFFECTS OF VINYL CHLORIDE MONOMER: AN ANNOTATED LITERATURE COLLECTION
AUTHOR/AFFILIATION WARREN H,OAK RIDGE NATIONAL LAB;HUFF JE,SAME;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 11 PP.251-252;
DATE 1975, JUNE
DESCRIPTORS ***** VCM;EFFECTS;HUMAN;
REVIEW YEAR 1990

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ACCESSION NUMBER 1242
FILE LOCATION GEN

20867090

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DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ACROPATHY OF THE EXTREMITIES ASSOCIATED WITH VC POLYMERIZATION--A NEW OCCUPATIONAL DISEASE
AUTHOR/AFFILIATION KOVAC A,NONE;KURAJICA L,NONE;JURIC-RUZIC D,NONE;PARAC B,NONE;
ORIGIN NONE,VOL 91 NO.5 PP.5-17;
DATE 1969
DESCRIPTORS ***** VCM;POLYMERIZATION;ACROOSTEOLYSIS;
HELD TERMS ACROPATHY;LIJ.VJES;
REVIEW YEAR 1990

Item 274

ACCESSION NUMBER 1231
FILE LOCATION GEN
DOCUMENT TYPE GOVERNMENT CORR
TITLE OR SUBJECT BFG'S SUBMISSION OF HISTORICAL DATA AND ANALYTICAL TEST PROCEDURES TO FDA ON RVCM OF PVC RESINS
AND COMPOUNDS
AUTHOR/AFFILIATION OSBORNE EB,BFG-CHEMICAL;
ORIGIN BFG-CHEMICAL,TO FDA;
DATE 1975, AUGUST 13
DESCRIPTORS ***** VCM;PVC;FDA;POTABLE WATER;ANALYSIS;
HELD TERMS RVCM;
REVIEW YEAR 1990

Item 275

ACCESSION NUMBER 1228
FILE LOCATION GEN
DOCUMENT TYPE STANDARDS
TITLE OR SUBJECT VINYL CHLORIDE AS AN INGREDIENT OF DRUG AND COSMETIC AEROSOL PRODUCTS(FINAL RULE).
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN FEDERAL REGISTER,VOL 39 NO.166 PP.30830;
DATE 1974, AUGUST 26
DESCRIPTORS ***** VCM;FDA;AEROSOL;
REVIEW YEAR 1990

Item 276

ACCESSION NUMBER 1227
FILE LOCATION GEN
DOCUMENT TYPE GOVERNMENT CORR
TITLE OR SUBJECT VINYL CHLORIDE FROM FOOD PACKAGING (CITIZEN PETITION)
AUTHOR/AFFILIATION KAMPELMAN J,NONE;JOHNSON A,NONE;WOLFE SM,NONE;
ORIGIN NONE,TO FDA HEARING CLERK;
DATE 1975, JULY 1
DESCRIPTORS ***** FDA;VCM;PVC;
HELD TERMS PUBLIC CITIZEN'S HEALTH RESEARCH GROUP;
REVIEW YEAR 1990

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20867091

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ACCESSION NUMBER 1226
FILE LOCATION GEN
DOCUMENT TYPE STANDARDS
TITLE OR SUBJECT PRIOR-SANCTIONED POLYVINYL CHLORIDE RESIN (TERMINATION OF NOTICE OF PROPOSED RULEMAKING)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN FEDERAL REGISTER,VOL 40 NO.171 PP.40529;
DATE 1975, SEPTEMBER 3
DESCRIPTORS ***** PVC;VCH;FDA;
REVIEW YEAR 1990

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ACCESSION NUMBER 1225
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT VINYL CHLORIDE POLYMERS IN CONTACT WITH FOOD (NOTICE OF PROPOSED RULE MAKING)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN FDA,CFR121 DOCKET NO.75N-0190;
DATE 1975
DESCRIPTORS ***** VCH;PVC;FDA;
REVIEW YEAR 1990

Item 279

ACCESSION NUMBER 1196
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER IN VINYL CHLORIDE/ POLYVINYL CHLORIDE WORKERS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN J OF OCCUPATIONAL MEDICINE ,VOL 16 NO.12;
DATE 1974
DESCRIPTORS ***** ANGIOSARCOMA; LIVER; VCH; PVC;
KMIC INDEX NUMBER 00377PUBL
REVIEW YEAR 1990

Item 280

ACCESSION NUMBER 1187
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT CYTOGENETIC STUDIES OF BONE MARROW CELLS FROM RATS EXPOSED TO VINYL CHLORIDE
AUTHOR/AFFILIATION JOHNSTON RV,DOM CHEMICAL CO;MENSIK DJ,SAME;PINKERTON MN,SAME; WHORTON EB,UNIV OF TEXAS;
ORIGIN DOM CHEMICAL CO,FOR MCA
DATE 1975
ABSTRACT STUDIES BY THE BIOMEDICAL AND COMPARATIVE TOXICOLOGY RESEARCH LABORATORY OF THE DOM CHEMICAL COMPANY,FREEPORT, TEXAS, SHOW THAT THERE WAS NO SIGNIFICANT INCREASE IN THE CHROMOSOMAL ABERRATION RATES OF BONE MARROW CELLS OF RATS EXPOSED TO VARYING DOSES OF VINYL CHLORIDE FOR ONE YEAR AT INDUSTRIAL BIO-TEST LABORATORIES, DECATUR, ILLINOIS.
DESCRIPTORS ***** MUTAGENICITY; VINYL CHLORIDE MONOMER; BONE MARROW; CHROMOSOMAL ABERRATION;INHALATION;RATS;
HELP TERMS CYTOGENETIC EFFECTS; CHROMOSOMAL ABNORMALITIES

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REVIEW YEAR 1990

Item 281

ACCESSION NUMBER 1182
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT CARCINOGENICITY BIOASSAYS OF VINYL CHLORIDE:1.RESEARCH PLAN AND EARLY RESULTS
AUTHOR/AFFILIATION LEFEMINE G,NONE; MALTONI C,NONE;
ORIGIN ENVIRONMENTAL RESEARCH,VOL 7 PP.387-405;
DATE 1974
ABSTRACT THESE INVESTIGATIONS ARE CONCERNED WITH DETERMINING THE ONCOGENIC POTENTIALITIES OF VINYL CHLORIDE (VC) IN EXPERIMENTAL ANIMALS. THE EFFECT OF THIS COMPOUND IS BEING STUDIED IN RELATION TO VARIOUS EXPERIMENTAL FACTORS, SUCH AS ROUTE OF ADMINISTRATION, DOSE LEVEL,LENGTH OF TREATMENT , SPECIES, STRAIN, AND AGE OF THE ANIMALS. PRELIMINARY RESULTS ARE PRESENTED. WHEN GIVEN BY INHALATION, VC INDUCES IN RATS, ZYMBAL GLAND CARCINOMAS, NEPHROBLASTOMAS, AND ANGIOSARCOMAS OF THE LIVER AND OF OTHER ANATOMICAL SITES; AND IN MICE, PULMONARY ADENOMAS, MAMMARY CARCINOMAS AND LIVER ANGIOSARCOMAS. A DIRECT RELATIONSHIP HAS BEEN FOUND BETWEEN DOSE AND LENGTH OF TREATMENT AND NEOPLASTIC RESPONSE.

DESCRIPTORS ***** VINYL CHLORIDE; CARCINOGENICITY; INHALATION; MICE; RATS;
KWIC INDEX NUMBER 00362PUBL
REVIEW YEAR 1990

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ACCESSION NUMBER 1181
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT VINYL CHLORIDE INDUCED LIVER DISEASE
AUTHOR/AFFILIATION THOMAS LB,NCI;POPPER H,NONE;BERK PD,NONE;SELIKOFF I,NONE; FALK H,NONE;
ORIGIN NONE,VOL 292 NO.1;
DATE 1975,
ABSTRACT HISTOLOGIC EXAMINATION OF LIVER TISSUE (EIGHT AUTOPSY AND 18 BIOPSY SPECIMENS) AND FIVE SPLEENS FROM 20 WORKERS WITH VINYL CHLORIDE POLYMERIZATION SHOWED HEPATIC ANGIOSARCOMAS IN 15. IN ADDITION, A PECULIAR PATTERN OF PROGRESSIVE PORTAL-TRACT,INCONSPICUOUS INTRALOBULAR AND CONSPICUOUS CAPSULAR FIBROSIS WAS OBSERVED IN THE FIVE WORKERS WITHOUT ANGIOSARCOMA, IN ALL THE SEVEN PATIENTS WITH ANGIOSARCOMA FROM WHOM TUMOR-FREE PORTIONS OF THE LIVER WERE AVAILABLE, 1 AND IN TWO TUMOR-FREE BIOPSIES FROM PATIENTS SUBSEQUENTLY FOUND TO HAVE ANGIOSARCOMA. THE FIBROSIS WAS ACCOMPANIED BY SPLENOMEGALY. HYPERTROPHY AND HYPERPLASIA OF BOTH HEPATOCYTES AND HEPATIC AND SPLENIC MESENCHYMAL CELLS WERE ALSO SEEN. THE HISTOLOGIC SIMILARITY TO CHRONIC INORGANIC ARSENICAL POISONING, IN WHICH ANGIOSARCOMAS ALSO OCCUR, AND TO IDIO- PATHIC PORTAL HYPERTENSION (BANTI'S SYNDROME) SUGGESTS THAT THE LATTER SYNDROME AT TIMES RESULTS FROM UNKNOWN TOXIC, POSSIBLY ENVIRONMENTAL, CHEMICALS.

DESCRIPTORS ***** ANGIOSARCOMA; VCM; HUMAN; EFFECTS; CHRONIC; ARSENIC;
HELD TERMS HEPATOTOXICITY; SPLENOMEGALY; NEW ENGLAND J OF MEDICINE;
KWIC INDEX NUMBER 00361PUBL
REVIEW YEAR 1991

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20867093

Item 283

ACCESSION NUMBER 1174
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT EXPERIMENTS ON THE CHRONIC TOXICITY OF A COPOLYMER OF VINYL AND VINYLIDINE CHLORIDE
AUTHOR/AFFILIATION SEELEER AO, HARVARD UNIV; CLINTON M, SAME; BOGGS J, SAME; DRINKER P, SAME;
ORIGIN HARVARD UNIV
DATE 1947
ABSTRACT RATS FED A DIET CONTAINING 5% VINYL AND VINYLIDINE CHLORIDE COPOLYMER FOR TWO YEARS SHOWED NO TOXIC EFFECTS. TWO DOGS WERE FED A DIET CONTAINING 5% VINYL AND VINYLIDINE CHLORIDE COPOLYMER FOR TWO YEARS WITHOUT EVIDENCE OF TOXIC EFFECTS.
DESCRIPTORS ***** PVC; VCM; CHRONIC; CARCINOGENICITY; RATS; DOGS; ORAL;
HELD TERMS DIET; VINYLIDINE CHLORIDE;
KNIC INDEX NUMBER 00353TOXS
REVIEW YEAR 1995

Item 284

ACCESSION NUMBER 1138
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT INDUSTRY'S LATEST CANCER SCARE
AUTHOR/AFFILIATION NONE, NONE;
ORIGIN NONE
DATE 1974, FEBRUARY
DESCRIPTORS ***** LIVER; ANGIOSARCOMA; PVC; VINYL CHLORIDE; VINYLIDENE CHLORIDE;
HELD TERMS BUSINESS WEEK;
KNIC INDEX NUMBER 00315PUBL
REVIEW YEAR 1990

Item 285

ACCESSION NUMBER 1137
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT PROPERTIES AND ESSENTIAL INFORMATION FOR SAFE HANDLING AND USE OF VINYL CHLORIDE
AUTHOR/AFFILIATION NONE, NONE;
ORIGIN NONE
DATE 1972
DESCRIPTORS ***** VINYL CHLORIDE; TOXICITY DATA; LIVER;
HELD TERMS MCA;
KNIC INDEX NUMBER 00314PUBL
REVIEW YEAR 1990

Item 286

ACCESSION NUMBER 1121
FILE LOCATION GEN

BFG52012

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20867094

DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT A STUDY OF THE TOXICITY OF GEON 202 RESIN
AUTHOR/AFFILIATION SEELEER AO,HARVARD UNIV;CLINTON M,SAME;BOGGS J,SAME; DRINKER P,SAME;
ORIGIN HARVARD UNIV,FOR BFG;
DATE 1947
ABSTRACT DIETARY ADMINISTRATION OF GEON 202 RESIN AT 5% FOR TWO YEARS DID NOT PRODUCE ANY COMPOUND
RELATED EFFECTS IN RATS OR DOGS.
DESCRIPTORS ***** VCM;VOC;PVC;EFFECTS;DIET;RATS;DOGS;CHRONIC;
HELD TERMS GEON 202;
KWIC INDEX NUMBER 00298TOXS
REVIEW YEAR 1992

Item 287

ACCESSION NUMBER 931
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT ONCOGENIC RESPONSE OF RAT SKIN LUNGS AND BONES TO VINYL CHLORIDE
AUTHOR/AFFILIATION CAPUTO A,NONE;BIGOTTI A,SAME;VIOLA PL,SAME;
ORIGIN CANCER RESEARCH,VOL 31 PP.516-522;
DATE 1971, MAY
ABSTRACT RATS (AR/IRE MISTAR STRAIN) EXPOSED FOR 12 MONTHS TO VAPORS OF VCM(30,000PPM) DEVELOPED TUMORS
OF THE SKIN,LUNGS AND BONES. THE CUTANEOUS TUMORS, WHICH ALWAYS APPEARED IN THE AREA IN WHICH
SUBMAXILLARY AND PAROTID GLANDS ARE LOCATED, HAVE BEEN HISTOLOGICALLY RECOGNIZED AS EPIDERMOID
CARCINOMAS , PAPILLOMAS, AND MUCOEPIDERMOID CARCINOMAS. THE MORPHOLOGICAL CHARACTERISTICS OF LUNG
TUMORS, WHICH OCCURED IN A LOWER PERCENTAGE, WERE MAINLY OF THE ADENOCARCINOMA TYPE, WITH THE
EXCEPTION OF A SINGLE EPIDERMOID TUMOR ORIGINATING FROM THE EPITHEAL COVERING CELLS. IN A MINOR
NUMBER OF RATS, A LARGE PROLIFERATION OF CARTILAGINOUS TISSUE DIAGNOSED AS OSTEOCHONDROMA
DEVELOPED IN THE METACARPAL AND METATARSAL REGIONS OF THE FOUR LIMBS.
DESCRIPTORS ***** VCM; INHALATION; RATS; CARCINOGENICITY; EFFECTS; CHRONIC;
HELD TERMS REGINA ELENA INSTITUTE FOR CANCER (ITALY);
KWIC INDEX NUMBER 00047PUBL
REVIEW YEAR 1990

Item 288

ACCESSION NUMBER 889
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT THE CORRELATION OF CLINICAL AND ENVIRONMENTAL MEASUREMENTS FOR WORKERS EXPOSED TO VINYL CHLORIDE
AUTHOR/AFFILIATION KRAMER CG,DOM CHEMICAL CO;MUTCHLER JE,SAME;
ORIGIN AIHA,VOL 33 NO.1 PP.19-30;
DATE 1972, JANUARY
ABSTRACT A METHOD IS DESCRIBED FOR THE STATISTICAL CONSOLIDATION AND CORRELATION OF ENVIRONMENTAL
MEASUREMENTS AND CLINICAL FINDINGS USING AS AN EXAMPLE A GROUP OF HEALTHY MALE WORKERS EXPOSED
ROUTINELY TO VINYL CHLORIDE FOR PERIODS UP TO 25 YEARS. RETROSPECTIVE IN NATURE THE STUDY REVEALS
SEVERAL STATISTICALLY SIGNIFICANT EFFECTS FROM CHRONIC EXPOSURES TO VINYL CHLORIDE AND TRACES OF
VINYLIDENE CHLORIDE.
DESCRIPTORS ***** VINYL CHLORIDE;WORKERS;EXPOSURE; VINYLIDENE CHLORIDE;CHRONIC; EFFECTS;
REVIEW YEAR 1990

BFG52013

20867095

BFG52014

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Item 289

ACCESSION NUMBER 888
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT LIFESPAN ORAL TOXICITY STUDY OF VINYL CHLORIDE IN RATS
 AUTHOR/AFFILIATION FERON VJ,NONE;HENDRIKSEN CFM,NONE;SPEEK AJ,NONE;TIL HP,NONE; SPIT BJ,NONE;
 ORIGIN NONE,VOL 19 PP.317-333;
 DATE 1981, JUNE
 ABSTRACT THE PRESENT STUDY SHOWED THAT ORALLY ADMINISTERED VCM IS A CARCINOGEN IN RATS, AND THAT THE "NO-OBSERVED-ADVERSE-EFFECT LEVEL" IN RATS WAS LOWER THAN 1.7 MG/KG BODY WEIGHT/DAY UNDER THE RIGOROUS CONDITIONS OF CONTINUOUS ORAL VCM EXPOSURE RESULTING FROM THE RELEASE OF VCM FROM PVC POWDER PRESENT IN THE GASTRO- INTESTINAL TRACT.
 DESCRIPTORS ***** ORAL;PVC;VCM;RATS;CARCINOGEN;DIET;
 HELD TERMS FOOD AND COSMETICS TOXICOLOGY;
 KMIC INDEX NUMBER 04335
 REVIEW YEAR 1990

Item 290

ACCESSION NUMBER 887
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT LIFESPAN ORAL CARCINOGENICITY STUDY OF VINYL CHLORIDE IN RATS (FINAL REPORT)
 AUTHOR/AFFILIATION TIL HP,NONE;IMMEL HR,NONE;FERON VJ,NONE;
 ORIGIN NONE,REPORT NO.V83.285/291099
 DATE 1983, SEPTEMBER
 ABSTRACT IT WAS CONCLUDED THAT UNDER THE CONDITIONS OF THE PRESENT EXPERIMENT: VCM AT A LEVEL OF 1.3 MG/KG BODY WEIGHT/DAY INDUCES NEOPLASTIC AND NON-NEOPLASTIC CHANGES IN THE LIVER OF RATS; VCM AT A LEVEL OF 0.13 MG/KG BODY WEIGHT/DAY MAY LEAD TO MORE FEMALE RATS BEARING FOCI OF CELLULAR ALTERATION IN THE LIVER; VCM AT LEVELS OF 0.014 OR 0.13 MG/KG BODY WEIGHT/DAY MAY RESULT IN AN INCREASED INCIDENCE OF BASOPHILIC FOCI OF CELLULAR ALTERATION IN THE LIVER OF FEMALE RATS;0.13MG VCM/KG BODY WEIGHT/ DAY IS A "NO-OBSERVED-ADVERSE-EFFECT-LEVEL" WITH RESPECT TO THE INDUCTION OF TUMOURS IN RATS.
 DESCRIPTORS ***** PVC;VCM;ORAL;FEEDING STUDY;RATS;CANCER;CHRONIC;EFFECTS;DIET;
 HELD TERMS DIETARY ADMINISTRATION;CIVO INSTITUTES TWO;
 REVIEW YEAR 1990

Item 291

ACCESSION NUMBER 725
 FILE LOCATION GEN
 DOCUMENT TYPE PAPER
 TITLE OR SUBJECT WORKING CONDITIONS AND MEASURES FOR THEIR SANITATION IN THE PRODUCTION AND UTILIZATION OF VINYL CHLORIDE PLASTICS
 AUTHOR/AFFILIATION TRIBUKH SL,NONE;TIKHOMIROVA NP,NONE;LEVIN SV,NONE;KOZLOV LA,NONE;
 ORIGIN NONE,VOL 10 PP.38-45;
 DATE 1949
 DESCRIPTORS ***** VCM;TOXICITY;PVC;PCB'S;

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20867096

HELD TERMS HEPATITIS;ARG SANIT;
REVIEW YEAR 1990

Item 292

ACCESSION NUMBER 723
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT THE EFFECT OF REPEATED VINYL CHLORIDE EXPOSURE ON RAT HEPATIC METABOLIZING ENZYMES
AUTHOR/AFFILIATION DU JT,NONE;TSENG MT,NONE;TAMBURRO CH,UNIV OF LOUISVILLE;
ORIGIN TOX AND APPLIED,VOL 62 PP.1-10;
DATE 1982
DESCRIPTORS ***** VCM;METABOLISM
REVIEW YEAR 1990

Item 293

ACCESSION NUMBER 721
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TEN CANADIAN CASES OF ANGIOSARCOMA OF THE LIVER IN VINYL CHLORIDE WORKERS
AUTHOR/AFFILIATION DELORME F,NONE;
ORIGIN NONE,VOL 23 NO.2PP.97-103;
DATE 1978
ABSTRACT TEN CASES OF ANGIOSARCOMA OF THE LIVER AMONG VINYL CHLORIDE WORKERS FROM A PLANT IN SHAMINIGAN, QUEBEC, ARE REPORTED. THE AUTHOR INSIST MOSTLY ON THE OCCUPATIONAL HISTORY OF THESE WORKERS AND ON THE MORPHOLOGIC DESCRIPTION OF THE LESIONS. A PATHOGENIC HYPOTHESIS IS SUBMITTED.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS;LIVER
HELD TERMS ANNALES D'ANATOMIE PATHOLOGIQUE;
REVIEW YEAR 1990

Item 294

ACCESSION NUMBER 712
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT VINYL CHLORIDE CONTENT OF SUBCUTANEOUS ADIPOSE TISSUE FROM VINYL CHLORIDE POLYMERIZATION WORKERS
AUTHOR/AFFILIATION KNITTLE JL,NEW YORK UNIV;FONTANARES P,SAME;DAUM S,SAME; SELIKOFF IJ,SAME;
ORIGIN NONE,NONE;
DATE 1974
ABSTRACT SIGNIFICANT LEVELS OF VINYL CHLORIDE MONOMER WERE FOUND IN SUBCUTANEOUS FAT DEPOTS OF WORKERS EXPOSED TO THE GAS DURING THE MANUFACTURE OF POLYVINYL CHLORIDE. THE COMPOUND WAS NOT DETECTED IN A CONTROL GROUP OF UNEXPOSED WORKERS.
DESCRIPTORS ***** VCM;ADIPOSE;HUMANS;EFFECTS
HELD TERMS BIOACCUMULATOR;DEPOSITION;CONCENTRATION;
REVIEW YEAR 1990

Item 295

ACCESSION NUMBER 711

BFG52015

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BFG52016

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FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HEMANGIOSARCOMA AND HEPATOCELLULAR CARCINOMA OF THE LIVER FOLLOWING VINYL CHLORIDE EXPOSURE
AUTHOR/AFFILIATION GOKEL JM,NONE;LIEBEZEIT E,NONE;EDER M,NONE;
ORIGIN NONE,VOL 372 NO.3 PP.195-203;
DATE 1976
ABSTRACT A REPORT IS GIVEN OF THE CLINICAL AND AUTOPSY FINDINGS OF TWO MEN WHO DIED FROM MALIGNANT LIVER NEOPLASM FOLLOWING OCCUPATIONAL EXPOSURE TO VINYL CHLORIDE. THE FIRST PATIENT WAS A 44-YEAR-OLD MAN WITH AN HEMANGIOSARCOMA OF THE LIVER, THE SECOND PATIENT A 67-YEAR-OLD MAN WITH AN HEPATOCELLULAR CARCINOMA. SO FAR AN HEPATOCELLULAR CARCINOMA DUE TO VINYL CHLORIDE HAS NOT YET BEEN OBSERVED IN MAN. ITS OCCURRENCE, HOWEVER, HAS BEEN SUGGESTED FROM THE RESULTS OF ANIMAL EXPERIMENTS. THE CONNECTION OF HEPATOCELLULAR CARCINOMA WITH EXPOSURE TO VINYL CHLORIDE IS DISCUSSED.

DESCRIPTORS ***** VCM;ANGIOSARCOMA;LIVER;CANCER;HUMANS;EFFECTS;
HELD TERMS HEPATOCELLULAR CARCINOMA;VIRCHOW ARCH PATH ANAT;
REVIEW YEAR 1990

Item 296

ACCESSION NUMBER 710
FILE LOCATION GEN
DOCUMENT TYPE BIBLIOGRAPHY
TITLE OR SUBJECT WORLD REGISTER OF CASES OF ANGIOSARCOMA OF THE LIVER(ASL) DUE TO VCM
AUTHOR/AFFILIATION bennett b,ici;
ORIGIN ICI
DATE 1990, JANUARY
ABSTRACT THIS DOCUMENT IS A REVIEW OF ALL ANGIOSARCOMA DEATHS IN PEOPLE WHO HAVE BEEN EMPLOYED IN A VCM/PVC FACILITY. IT IS UPDATED APPROXIMATELY BI-ANNUALLY.

DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMANS;EFFECTS
REVIEW YEAR 1992

Item 297

ACCESSION NUMBER 706
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ASSOCIATION OF AN ANGIOSARCOMA OF THE LIVER WITH A HEPATOMA IN A VINYL CHLORIDE WORKER
AUTHOR/AFFILIATION DELORME F,NONE;
ORIGIN NONE,VOL 23 NO.2 PP.105-114;
DATE 1978
ABSTRACT THIS REPORT DEALS WITH A 51 YEARS-OLD MAN WHO, FOR 23 YEARS AND 4 MONTHS OF HIS WORKING LIFE, HAD BEEN EXPOSED TO VINYL CHLORIDE VAPORS. AUTOPSY REVEALED A HEPATOMA ASSOCIATED WITH AN ANGIOSARCOMA OF THE LIVER. THE CASE IS THE FIRST EVER TO BE REPORTED IN THE MEDICAL LITERATURE. THIS CASE RAISES DOUBT ABOUT THE THEORY WHICH SUGGESTS THAT THE CARCINOGENIC EFFECT OF VINYL CHLORIDE IN MAN ELICIT A TUMOR OF VASCULAR NATURE.

DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMANS;EFFECTS;LIVER
HELD TERMS ANALES D'ANATOMIE PATHOLOGIQUE;
REVIEW YEAR 1990

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ACCESSION NUMBER 704
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SCLERODERMA LIKE SKIN CHANGES, RAYNAUD'S SYNDROME AND ACROOSTEOLYSES IN WORKERS IN THE POLYVINYL CHLORIDE PRODUCING INDUSTRY
AUTHOR/AFFILIATION JUNE S, NONE; LANGE CE, NONE;
ORIGIN NONE, VOL 97 PP. 1922-1923;
DATE 1972
DESCRIPTORS ***** VCM; AOL; SYNDROME
HELD TERMS SCLERODERMA; OTSCH MED MSCHR;
REVIEW YEAR 1990

Item 299

ACCESSION NUMBER 703
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TOXIC TRIGEMINAL DISEASE AND POLYVINYLIDENE CHLORIDE
AUTHOR/AFFILIATION KRIEGER J, NONE; HARTER JM, NONE; MENGUS M, NONE; MEHL J, NONE; ISCH F, NONE;
ORIGIN NONE, VOL 43 PP. 64-68;
DATE 1971
DESCRIPTORS ***** VCM; AOL; HUMANS; EFFECTS
HELD TERMS REVUE D'OTO-NEURO-OPHTALMOLOGIE;
REVIEW YEAR 1990

Item 300

ACCESSION NUMBER 702
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS (AOL): AN EPIDEMIOLOGIC INVESTIGATION OF A NEW DISEASE AMONG POLYVINYL CHLORIDE SYNTHESIS WORKERS
AUTHOR/AFFILIATION MAGNUSON J, NONE; DINMAN BD, NONE; COOK WA, NONE; GIEVER PH, NONE; WHITEHOUSE MM, NONE;
ORIGIN NONE, PP. 621-622;
DATE 1969, SEPTEMBER 22-27
DESCRIPTORS ***** VCM; AOL; HUMANS; EFFECTS; EPIDEMIOLOGY
HELD TERMS INTERNATIONAL CONGRESS ON OCCUPATIONAL HEALTH;
REVIEW YEAR 1990

Item 301

ACCESSION NUMBER 701
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS
AUTHOR/AFFILIATION MARKOWITZ SS, NONE; MC DONALD CJ, SAME; FETHIERE M, SAME; KERZNER MS, SAME;
ORIGIN ARCH DERMATOL, VOL 106 PP. 219-223;

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DATE 1972, AUGUST
 ABSTRACT OCCUPATIONAL ACROOSTEOLYSIS IS AN UNUSUAL DISEASE IN WHICH AFFECTED PERSONS HAVE
 SCLERODERMOID-LIKE LESIONS OF THE SKIN, CONDITIONS SIMILAR TO RAYNAUD'S PHENOMENON, AND
 ASYMPTOMATIC, BONY DEFECTS OF THE EXTREMITIES. TO OUR KNOWLEDGE, THE DISEASE IS CONFINED SOLELY
 TO WORKERS IN THE PLASTICS INDUSTRY, SPECIFICALLY THOSE ENGAGED IN THE PRODUCTION OF POLYVINYL
 CHLORIDE FROM VINYL CHLORIDE. THE INCIDENCE OF THE DISEASE IS UNKNOWN BUT IS THOUGHT TO OCCUR IN
 3% OR LESS OF WORKERS.

DESCRIPTORS ***** VCM;ACROOSTEOLYSIS;SYNDROME;HUMANS;EFFECTS
 HELD TERMS BROWN UNIV;RAYNAUD'S SYNDROME;
 REVIEW YEAR 1990

Item 302

ACCESSION NUMBER 697
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT OCCUPATIONAL LESIONS OF THE SKIN DUE TO PVC
 AUTHOR/AFFILIATION SONNECK HJ,NONE;
 ORIGIN NONE,VOL 8 PP.38-43;
 DATE 1962
 ABSTRACT TWO CASES OF OCCUPATIONAL LESIONS OF THE SKIN OBSERVED IN THE INDUSTRY MAKING USE OF POLYVINYL
 CHLORIDES, ARE DEALT WITH. IN THE LIGHT OF TEST RESULTS IT IS SUPPOSED THAT A COMPLEXE TOXIC AND
 ALLERGIC MECHANISM PLAYS A PART, THAT MEANS THAT THE EMULSIFIER WITH ITS STRONG DEGREASING
 PROPERTIES OR THE SOLVENTS USED MAY CAUSE NOT ONLY AN IRRITATION OF THE SKIN BUT MAY EVEN FURTHER
 A SENSIBILIZATION TO POLYVINYL CHLORIDE WHICH, GENERALLY, IS NOT CONSIDERED TO BE A SENSITIZER.

DESCRIPTORS ***** VCM;SKIN;LESIONS;WORKERS;HUMAN;EFFECTS;SOLVENTS
 HELD TERMS BERUFSDERMATOSEN;
 REVIEW YEAR 1990

Item 303

ACCESSION NUMBER 694
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS
 AUTHOR/AFFILIATION WILSON RH,BFG;MC CORMICK HE,SAME;TATUM CF,NONE;CREECH JL,NONE;
 ORIGIN JAMA,VOL 201 NO.8 PP.577-581;
 DATE 1967, AUGUST 21
 ABSTRACT IN 31 CASES OF ACROOSTEOLYSIS OF THE HANDS OF WORKMEN ASSOCIATED WITH VINYL CHLORIDE (CH₂CHCL)
 POLYMERIZATION PROCESSES, THE OSTEOLYSIS WAS SPECIFIC TO THE DISTAL PHALANGES OF HANDS AND WAS
 FREQUENTLY ASSOCIATED WITH RAYNAUD'S SYMPTOMS. AFFECTED PERSONNEL RANGED IN AGE FROM 26 TO 47.
 THE DISORDER IS BELIEVED TO HAVE RESULTED FROM A COMBINATION OF PHYSICAL INSULT, CHEMICAL INSULT,
 AND PERSONAL IDIOSYNCRASY. THE SPECIFIC CAUSES ARE UNKNOWN. THE PREVALENCE WAS FOUND TO BE LESS
 THAN 3% AMONG EMPLOYEES PERFORMING SIMILAR WORK. NO CASES WERE FOUND IN WORKMEN USING OR
 PROCESSING THE POLYMER OR MANUFACTURING COMMERCIAL RESINS.

DESCRIPTORS ***** VCM;AOL;HUMAN;EFFECTS;WORKERS;EPIDEMIOLOGY
 REVIEW YEAR 1990

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BFG52019

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ACCESSION NUMBER 688
 FILE LOCATION GEN
 DOCUMENT TYPE PROCEEDINGS
 TITLE OR SUBJECT OCCUPATIONAL CARCINOGENESIS
 AUTHOR/AFFILIATION MALTONI C,NONE
 ORIGIN NONE,VOL 2 SERIES NO.322
 DATE 1973, APRIL 9-12
 ABSTRACT OVERVIEW OF CHEMICAL CARCINOGENESIS AND ANIMAL STUDIES SHOWING VCM INDUCED CANCER OF THE LIVER (ANGIOSARCOMA) AND ZYMBAL GLAND.
 DESCRIPTORS ***** VCM;RATS;ANGIOSARCOMA;ZYMBAL GLAND;TUMORS;CARCINOGENICITY;INHALATION; CHRONIC;EFFECTS
 HELD TERMS INTERNATIONAL CONGRESS ON OCCUPATIONAL HEALTH;
 REVIEW YEAR 1990

Item 305

ACCESSION NUMBER 686
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT ACUTE INHALATION TOXICITY OF VINYL CHLORIDE TO LABORATORY ANIMALS
 AUTHOR/AFFILIATION MASTROMATTEO E,NONE;FISHER AM,NONE;CHRISTIE H,NONE;DANZIGER H,NONE
 ORIGIN J OF AIHA,VOL 21 PP.394-398
 DATE 1960
 ABSTRACT IRRITATION AND SYMPTOMS RELATING TO NARCOSIS AND DEATH WERE OBSERVED OVER CONCENTRATIONS OF 10-40% IN MICE,RATS AND GUINEA PIGS.
 DESCRIPTORS ***** VCM;INHALATION;MICE;RATS;GUINEA PIGS;NARCOSIS
 REVIEW YEAR 1990

Item 306

ACCESSION NUMBER 685
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT CHRONIC ORAL TOXICITY TO RATS OF A VINYL CHLORIDE-VINYL ACETATE COPOLYMER
 AUTHOR/AFFILIATION SMYTH HF,NONE;HEIL CS,SAME
 ORIGIN TOX AND APPLIED,VOL 9 PP.501-504
 DATE 1966
 ABSTRACT STARTING IN 1944, ALBINO RATS OF BOTH SEXES CAGED TOGETHER WERE MAINTAINED FOR TWO YEARS UPON DIETS CONTAINING 1.5% AND 12% OF A VINYL CHLORIDE-VINYL ACETATE COPOLYMER. NO EFFECTS ATTRIBUTABLE TO THE RESIN WAS FOUND.
 DESCRIPTORS ***** PVC;VCM;VDC;CARCINOGENICITY;ORAL;RATS;CHRONIC;EFFECTS
 HELD TERMS DIET; MELLON INSTITUTE;
 REVIEW YEAR 1990

Item 307

ACCESSION NUMBER 684
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT ONE-YEAR TIME SEQUENCE INHALATION TOXICITY STUDY OF VINYL CHLORIDE IN RATS: I. GROWTH, MORTALITY, HAEMATOLOGY, CLINICAL CHEMISTRY AND ORGAN WEIGHTS

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AUTHOR/AFFILIATION FERON VJ,NONE;KRUYSSE A,NONE;TIL HP,NONE;
 ORIGIN NONE,VOL 13 PP.25-28;
 DATE 1979
 ABSTRACT HISTAR RATS WERE EXPOSED TO ATMOSPHERES CONTAINING 0 (CONTROL) OR 5000 PPM VINYL CHLORIDE MONOMER (VCM), 7 HR/DAY, 5 DAYS/WEEK, FOR A PERIOD OF 52 WEEKS. AFTER 4,13,26 AND 52 WEEKS EACH TIME 10 RATS/SEX/GROUP WERE KILLED AND SUBJECTED TO EXTENSIVE EXAMINATIONS. THE PRESENT PAPER DEALS WITH GROWTH, MORTALITY, HAEMATOLOGY, CLINICAL CHEMISTRY AND ORGAN WEIGHTS. THE PRESENT STUDY DID NOT PRODUCE OBVIOUSLY SUITABLE PARAMETERS FOR EARLY DIAGNOSING "VCM-DISEASE" IN MAN.

DESCRIPTORS ***** VCM;RATS;INHALATION;CHRONIC;DETERMINATION
 HELD TERMS DIAGNOSIS; TOXICOLOGY;
 REVIEW YEAR 1990

Item 308

ACCESSION NUMBER 683
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT ANESTHESIA XXVII: NARCOSIS WITH VINYL CHLORIDE
 AUTHOR/AFFILIATION OSTER RH,NONE;CARR CJ,NONE;KRANTZ JC,NONE;
 ORIGIN NONE,VOL 8 PP.359-361;
 DATE 1947, JULY
 ABSTRACT NARCOSIS AND CARDIAC ARRHYTHMIA OBSERVED IN DOGS EXPOSED TO 7 TO 50% VCM.
 DESCRIPTORS ***** VCM;CARDIAC ARRHYTHMIA;NARCOSIS;INHALATION;ACUTE;DOGS
 HELD TERMS ANESTHESIA;
 REVIEW YEAR 1990

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ACCESSION NUMBER 682
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT ONE-YEAR TIME-SEQUENCE INHALATION TOXICITY STUDY OF VINYL CHLORIDE IN RATS : II. MORPHOLOGICAL CHANGES IN THE RESPIRATORY TRACT,CERUMINOUS GLANDS, BRAIN,KIDNEYS,HEART AND SPLEEN.

AUTHOR/AFFILIATION FERON VJ,NONE;KROES R,NONE;
 ORIGIN NONE,VOL 13 PP.131-141;
 DATE 1979
 ABSTRACT HISTAR RATS WERE EXPOSED TO ATMOSPHERES CONTAINING 0 (CONTROL) OR 5000 PPM VINYL CHLORIDE MONOMER (VCM), 7 HR/DAY, 5 DAYS/WEEK, FOR A PERIOD OF 52 WEEKS. AFTER 4,13,26 AND 52 WEEKS EACH TIME 10 RATS/ SEX /GROUP WERE KILLED AND SUBJECTED TO EXTENSIVE EXAMINATIONS. THE PRESENT PAPER DESCRIBES THE MORPHOLOGICAL CHANGES OBSERVED IN THE RESPIRATORY TRACT, CERUMINOUS GLANDS,BRAIN, KIDNEYS,HEART AND SPLEEN. THE VCM-EFFECTS INCLUDED INCREASED DEGREE OF TUBULAR NEPHROSIS, MILD FOCAL DEGENERATION OF THE MYOCARD, AND INCREASED HAEMATOPOIETIC ACTIVITY IN THE SPLEEN. IN ADDITION, PRIMARY TUMOURS WERE FOUND IN THE BRAIN (EPENDYMOA),LUNGS (PAPILLARY ADENOMA AND MESENCHYMAL TYPE OF TUMOUR), CERUMINOUS GLANDS (MAINLY KERATINIZED SQUAMOUS CELL CARCINOMAS), AND NASAL CAVITY (CARCINOMAS OF THE OLFACTORY EPITHELIUM, CARCINO-SARCOMA, ESTHESIONEUROEPITHELIOMA).

DESCRIPTORS ***** VCM;INHALATION;RATS;CHRONIC;CARCINOGENICITY;RESPIRATORY EFFECTS
 HELD TERMS RESPIRATORY TRACT; TOXICOLOGY;
 REVIEW YEAR 1990

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Item 310

ACCESSION NUMBER 681
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ONE-YEAR TIME-SEQUENCE INHALATION TOXICITY STUDY OF VINYL CHLORIDE IN RATS: III. MORPHOLOGICAL CHANGES IN THE LIVER
AUTHOR/AFFILIATION FERON VJ,NONE;SPIT BJ,NONE;IMMEL HR,NONE;KROES R,NONE;
ORIGIN NONE,VOL 13 PP.143-154;
DATE 1979
ABSTRACT MISTAR RATS WERE EXPOSED TO ATMOSPHERES CONTAINING 0 (CONTROL) OR 5000 PPM VINYL CHLORIDE MONOMER (VCM), 7 HR/DAY, 5 DAYS/WEEK, FOR A PERIOD OF 52 WEEKS. AFTER 4,13,26,52 WEEKS EACH TIME 10 RATS/SEX/ GROUP WERE KILLED AND SUBJECTED TO EXTENSIVE EXAMINATIONS. THE PRESENT PAPER DESCRIBES THE MORPHOLOGICAL CHANGES FOUND IN THE LIVER. THE MAJOR PARENCHYMAL CHANGES COMPRISED SWELLING AND MALFORMATION OF MITOCHONDRIA, AN INCREASED AMOUNT OF SMOOTH ENDOPLASMIC RETICULUM, NECROSIS,NUCLEAR AND CELLULAR POLYMORPHISM OF HEPATOCYTES, "FOCI OF CELLULAR ALTERATION", NEOPLASTIC NODULES AND HEPATOCELLULAR CARCINOMAS. A REDUCED GLUCOSE -6-PHOSPHATASE ACTIVITY IN HEPATOCYTES AND A STRONG SINUSOIDAL ACTIVITY OF ALKALINE PHOSPHATASE WERE FOUND WITHIN "FOCI OF CELLULAR ALTERATION". THE NON-PARENCHYMAL ALTERATIONS INCLUDED FOCAL DILATATION OF SINUSOIDS, FOCAL PROLIFERATION OF ATYPICAL SINUSOIDAL CELLS AND MULTICENTRIC ANGIOSARCOMAS. THE EFFECTS OF VCM ON THE HEPATIC PARENCHYMA SEEMED TO PRECEDE THOSE ON THE HEPATIC STROMA.
DESCRIPTORS ***** VCM;INHALATION;RATS;CHRONIC;CARCINOGENICITY;LIVER
HELD TERMS TOXICOLOGY
REVIEW YEAR 1990

Item 311

ACCESSION NUMBER 680
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT EFFECTS OF SINGLE AND REPEATED EXPOSURES OF HUMANS AND RATS TO VINYL CHLORIDE
AUTHOR/AFFILIATION LESTER D,NONE;GREENBERG LA,NONE;ADAMS HR,NONE;
ORIGIN J OF AHA,VOL 24 PP.265-275;
DATE 1963, MAY-JUNE
ABSTRACT RATS EXPOSED EIGHT HOURS DAILY TO VINYL CHLORIDE AT CONCENTRATIONS OF 2
DESCRIPTORS ***** VCM;RATS;HUMANS;INHALATION;SUBCHRONIC
REVIEW YEAR 1990

Item 312

ACCESSION NUMBER 679
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT NONNEOPLASTIC EFFECTS OF VINYL CHLORIDE IN MOUSE LUNG
AUTHOR/AFFILIATION SUZUKI Y,NEW YORK UNIV;
ORIGIN ENVIRONMENTAL RESEARCH,VOL 21 PP.235-253;
DATE 1980
ABSTRACT IN A PREVIOUS STUDY, A HIGH INCIDENCE OF PULMONARY TUMORS (ALVEOGENIC NEOPLASIA IN MOUSE LUNG EXPOSED TO VINYL CHLORIDE AT HEAVY DOSE (2500 AND 6000 PPM) FOR LONG DURATIONS (5 AND 6 MONTHS)

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DESCRIPTORS ***** WAS REPORTED (Y. SUZUKI, 1978, ENVIRON. RES. 16, 285-301). IN THE PRESENT STUDY, NONNEOPLASTIC
EFFECTS IN MOUSE LUNG WERE INVESTIGATED BY LIGHT AND ELECTRON MICROSCOPY.
HELD TERMS VCM; INHALATION; MICE; LUNG; CARCINOGENICITY; CHRONIC; EFFECTS
CITY UNIV OF NEW YORK;
REVIEW YEAR 1990

Item 313

ACCESSION NUMBER 678
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT INHALATION PHARMACOKINETICS BASED ON GAS UPTAKE STUDIES
AUTHOR/AFFILIATION BOLT HM, NONE; FILSER JG, NONE; BUCHTER A, NONE;
ORIGIN NONE, VOL 48 PP. 213-228;
DATE 1981
ABSTRACT AFTER COMPARING A 2-HR EXPOSURE TO 5 PPM VCM WITH TWO 50 PPM VCM PEAKS FOR 5 MINUTES EACH IN THE
RHESUS MONKEY, THE AUTHORS CONCLUDED THAT REGARDLESS OF THE EXPOSURE PROFILE THE AMOUNT OF
REACTIVE METABOLITES FORMED FROM VCM WOULD SOLELY BE A FUNCTION OF MEAN VCM CONCENTRATION (AIR)
OVER TIME.

DESCRIPTORS ***** VCM; INHALATION; PHARMACOKINETICS; METABOLISM; MONKEY
HELD TERMS PEAK CONCENTRATIONS; RHESUS MONKEY; ARCH TOXICOL;
REVIEW YEAR 1990

Item 314

ACCESSION NUMBER 677
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PHARMACOKINETICS OF VINYL CHLORIDE IN THE RAT
AUTHOR/AFFILIATION BOLT HM, NONE; LAIB RJ, NONE; KAPPUS H, NONE; BUCHTER A, NONE;
ORIGIN NONE, VOL 7 PP. 179-188;
DATE 1977
ABSTRACT PHARMACOKINETIC ANALYSIS SHOWS THAT NO SIGNIFICANT CUMULATION OF VINYL CHLORIDE OR ITS MAJOR
METABOLITES IS TO BE EXPECTED ON REPEATED ADMINISTRATION OF VINYL CHLORIDES. THIS MAY BE
CONSISTENT WITH THE THEORY THAT A REACTIVE, SHORTLY LIVING, METABOLITE WHICH OCCURS IN LOW
CONCENTRATION ONLY, MAY BE RESPONSIBLE FOR THE TOXIC EFFECTS OF VINYL CHLORIDE.

DESCRIPTORS ***** VCM; PHARMACOKINETICS; METABOLISM; RAT; INHALATION
HELD TERMS TOXICOLOGY; INSTITUTE OF TOXICOLOGY; UNIV OF TUBINGEN; INSTITUTE OF OCCUPATIONAL AND SOCIAL
MEDICINE; UNIV OF COLOGNE;
REVIEW YEAR 1990

Item 315

ACCESSION NUMBER 676
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT DISPOSITION OF (1,2-14C) VINYL CHLORIDE IN RAT
AUTHOR/AFFILIATION BOLT HM, NONE; KAPPUS H, NONE; BUCHTER A, NONE; BOLT M, NONE;
ORIGIN NONE, VOL 35 NO. 3 PP. 153-162;
DATE 1976

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ABSTRACT IMMEDIATELY AFTER EXPOSURE, HIGHEST RADIOACTIVITY LEVELS WERE OBSERVED IN LIVER AND KIDNEY. THE RADIOACTIVE METABOLITES OF 14C-VINYL CHLORIDE WERE RAPIDLY EXCRETED, LARGELY BY THE KIDNEYS. EXCRETION OF RADIOACTIVITY IN THE URINE WAS 69.4 PLUS OR MINUS 2.6 % WITHIN 24 HR.

DESCRIPTORS ***** VCM;INHALATION;METABOLISM;RAT
 HELD TERMS DISPOSITION; ARCH TOXICOL;
 REVIEW YEAR 1990

Item 316

ACCESSION NUMBER 675
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT PHARMACOKINETICS OF VINYL CHLORIDE IN THE RHESUS MONKEY
 AUTHOR/AFFILIATION BUCHTER A,NONE;FILSER JG,NONE;BOLT HM,NONE;PETER H,NONE;
 ORIGIN NONE,VOL 6 PP.33-36;
 DATE 1980
 ABSTRACT THE METABOLIC ELIMINATION OF VINYL CHLORIDE IN RHESUS MONKEYS IS A DOSE-DEPENDENT,SATURABLE PROCESS, AS IN RATS. BELOW 200-300 PPM OF VINYL CHLORIDE (VC) IN ATMOSPHERE, ELIMINATION OBEYS A FIRST-ORDER LAW; THE CLEARANCE RATE IS MUCH CLOSER TO THAT FOUND IN MAN THAN THE VALUES FOR RATS, MICE AND GERBILS. THE MAXIMAL VELOCITY OF METABOLIC ELIMINATION OF VC AT HIGH CONCENTRATIONS IN RHESUS MONKEYS IS ONLY ABOUT HALF OF RATS WHEN RELATED TO KG BODY WEIGHT. IT IS SUGGESTED THAT RHESUS MONKEYS MIMIC THE QUANTITATIVE ASPECTS OF VC METABOLISM BETTER THAN RATS OR MICE.

DESCRIPTORS ***** VCM;INHALATION;MONKEY;PHARMACOKINETICS;METABOLISM
 HELD TERMS RHESUS MONKEY;TOXICOLOGY LETTERS;
 REVIEW YEAR 1990

Item 317

ACCESSION NUMBER 674
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT STUDIES ON THE METABOLISM OF VINYL CHLORIDE
 AUTHOR/AFFILIATION ANTHEILER H,NONE;
 ORIGIN NONE,VOL 17 PP.217-219;
 DATE 1976
 ABSTRACT VINYL CHLORIDE (VCM) IS NOT CARCINOGENIC BY ITSELF IT IS BIOACTIVATED TO THE HIGHLY REACTIVE ALKYLATING OXIRANE CHLOROETHYLENE OXIDE. FURTHER METABOLISM, APPARENTLY, LEADS VIA AN INTERACTION OF THE PRIMARY ALKYLATING METABOLITES WITH GLUTATHION TO S-(2-CARBOXYMETHYL)-CYSTEINE AND THIODIACETIC ACID WHICH ARE ELIMINATED WITH THE URINE.

DESCRIPTORS ***** VCM;METABOLISM
 HELD TERMS S-(2-CARBOXYMETHYL)-CYSTEINE;ENVIRONMENTAL HEALTH PERSPECTIVES; CHLOROETHYLENE OXIDE;
 REVIEW YEAR THIODIACETIC ACID;
 1990

Item 318

ACCESSION NUMBER 673
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT RISKS TO THE OFFSPRING FROM PARENTAL OCCUPATIONAL EXPOSURES

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AUTHOR/AFFILIATION HAAS JF,NONE;SCHOTTENFELD D,NONE;
ORIGIN JOURNAL OF OCCUPATIONAL MEDICINE ,VOL 21 NO.9 PP.607-613;
DATE 1979, SEPTEMBER
ABSTRACT VCM IS DISCUSSED AS ONE OF SEVERAL COMPOUNDS WHICH MAY POSE A REPRODUCTIVE RISK.
DESCRIPTORS ***** VCM;REPRODUCTION;TERATOGENICITY;MUTAGENICITY;HUMAN;EFFECTS;CHROMOSOMAL ABERRATION
REVIEW YEAR 1990

Item 319

ACCESSION NUMBER 672
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE ROLE OF RESPIRATION IN VINYL CHLORIDE MONOMER EXCRETION IN RATS
AUTHOR/AFFILIATION ZUCCATO E,NONE;MARCUCCI F,NONE;MUSSINI E,NONE;
ORIGIN NONE,VOL 5 PP.213-217;
DATE 1980
ABSTRACT 1,5 AND 10 MG/KG VINYL CHLORIDE MONOMER (VCM) IN AQUEOUS SOLUTION WERE INJECTED I.V. INTO MALE RATS WITH CANNULATED TRACHEAS. RESPIRATORY ACTIVITY WAS REGULATED TO PERMIT INVESTIGATION OF THE EFFECT OF MODIFYING PULMONARY VENTILATION ON VCM EXCRETION IN BLOOD AND EXPIRED AIR ASSAYED AT DIFFERENT INTERVALS FOR VCM. VCM EXCRETION RATE WAS FOUND TO BE DIRECTLY PROPORTIONATE TO PULMONARY VENTILATION. WHEN RESPIRATION WAS STOPPED FOR 1 MIN AFTER VCM INJECTION, THERE WAS NO DECREASE IN BLOOD VCM. THE MAIN ROUTE OF ELIMINATION OF I.V. INJECTED VCM THUS BEING PULMONARY.
DESCRIPTORS ***** VCM;LUNGS;RATS;IV;ELIMINATION
HELP TERMS DISPOSITION;TOXICOLOGY LETTERS;
REVIEW YEAR 1990

Item 320

ACCESSION NUMBER 671
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT METABOLISM OF VINYL CHLORIDE
AUTHOR/AFFILIATION MATANABE PG,DOM CHEMICAL CO;HEFNER RE,SAME;MCGOWAN GR,SAME;GEHRING PJ,SAME;
ORIGIN DOM CHEMICAL CO,PRESENTED AT COMBINED CLINICAL STAFFS (NIH);
DATE 1974, NOVEMBER 14
DESCRIPTORS ***** VCM;INHALATION;METABOLISM
REVIEW YEAR 1990

Item 321

ACCESSION NUMBER 670
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT VINYL CHLORIDE INDUCED DEPRESSION OF HEPATIC NON-PROTEIN SULFHYDRYL CONTENT AND EFFECTS ON BROMOSULPHALEIN (BSP)
AUTHOR/AFFILIATION MATANABE PG,DOM CHEMICAL CO;HEFNER RE,SAME;GEHRING PJ,SAME;
ORIGIN DOM CHEMICAL CO
DATE 1976
ABSTRACT RATS WERE EXPOSED TO ATMOSPHERES OF 2000,1000,250,150,50 AND 10 PPM VINYL CHLORIDE (VC) FOR 1-7 HOURS TO DETERMINE THE EFFECT OF VC ON THE HEPATIC NON-PROTEIN SULFHYDRYL CONTENT. EXPOSURE TO

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2000,1000,250 AND 150 PPM VC CAUSED A PROGRESSIVE DEPRESSION OF THE HEPATIC NON-PROTEIN SULFHYDRYL CONTENT. FOLLOWING EXPOSURE TO 50 PPM VC FOR 7 HOURS THE DEPRESSION WAS INCONSISTENT, AND NO DEPRESSION WAS OBSERVED AFTER 10 PPM VC FOR 7 HOURS. ALSO, EXPOSURE TO 1000 PPM VC DID NOT ALTER THE SERUM CLEARANCE OF BROMSULPHALEIN (BSP)

DESCRIPTORS ***** VCM;INHALATION;RATS;METABOLISM
HELD TERMS DISPOSITION;CLEARANCE;
REVIEW YEAR 1990

Item 322

ACCESSION NUMBER 669
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HEPATIC MACROMOLECULAR BINDING FOLLOWING EXPOSURE TO VINYL CHLORIDE
AUTHOR/AFFILIATION MATANABE PG,DOM CHEMICAL CO;ZEMPEL JA,SAME;PEGG DG,SAME;GEHRING PJ,SAME;
ORIGIN TOX AND APPLIED,VOL 44 PP.571-579;
DATE 1978
ABSTRACT COVALENT BINDING OF RADIOACTIVITY TO HEPATIC MACROMOLECULES IN RATS EXPOSED TO 14C-LABELED VINYL CHLORIDE (VC) WAS STUDIED TO DETERMINE IF VC-INDUCED CARCINOGENESIS MAY BE RELATED TO ELECTROPHILIC ALKYLATION OF MACROMOLECULES IN VIVO. MALE SPRAGUE-DAWLEY RATS WERE EXPOSED TO 1,10, 25,50,100,250,500,1000, OR 5000 PPM OF 14C VC FOR 6 HR. FOLLOWING EXPOSURE,RADIOACTIVITY COVALENTLY BOUND TO HEPATIC MACROMOLECULES AND PURIFIED NUCLEIC ACID (RNA,DNA) WAS DETERMINED. THE TOTAL AMOUNT OF 14C VC METABOLIZED AND HEPATIC GLUTATHIONE (GSH) CONTENT WERE ALSO DETERMINED. THE TOTAL AMOUNT OF RADIOACTIVITY BOUND TO MACROMOLECULES IN THE LIVER DID NOT INCREASE PROPORTIONATELY TO THE INCREASE IN THE EXPOSURE CONCENTRATION OF VC. A DISPROPORTIONATE DECREASE IN MACROMOLECULAR BINDING WAS OBSERVED AS THE CONCENTRATION OF VC INCREASED. THE COVALENT BINDING TO HEPATIC MACROMOLECULES WAS RELATED TO THE AMOUNT OF VC METABOLIZED. AT EXPOSURES GREATER THAN 50PPM, THE AMOUNT OF 14C BOUND TO MACROMOLECULES IN THE LIVER CORRELATES WITH INDUCTION OF HEPATIC ANGIOSARCOMA. THERE WAS NOT DETECTABLE BINDING OF RADIOACTIVITY TO EITHER DNA OR RNA IN THE LIVER. HEPATIC GLUTATHIONE CONTENT WAS SIGNIFICANTLY DEPRESSED ONLY AT EXPOSURE CONCENTRATIONS GREATER THAN 100PPM.

DESCRIPTORS ***** VCM;METABOLISM;LIVER;INHALATION;RATS
HELD TERMS MACROMOLECULAR BINDING;COVALENT BINDING
REVIEW YEAR 1990

Item 323

ACCESSION NUMBER 668
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT A PROCEDURE FOR PREPARING 14C-LABELED VINYL CHLORIDE
AUTHOR/AFFILIATION MAGNER ER,NONE;MUELDER MM,NONE;
ORIGIN NONE,VOL 246PP.152-153;
DATE 1975, JANUARY 31
DESCRIPTORS ***** VCM
HELD TERMS SYNTHESIS;RADIOLABELED ;ANNALS OF THE NEW YORK ACADEMY OF SCIENCES
REVIEW YEAR 1990

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ACCESSION NUMBER 667
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT CYTOCHROME P-450 AND THE METABOLISM OF VINYL CHLORIDE
 AUTHOR/AFFILIATION SALMON AG,ICI;
 ORIGIN NONE,VOL 2 NO.2 PP.109-114;
 DATE 1976
 ABSTRACT THE OXIDATION OF VINYL CHLORIDE TO NON-VOLATILE PRODUCTS IS DEPENDENT ON NADPH AND MICROSOMAL ENZYMES. THE ADDITION OF VINYL CHLORIDE TO MICROSOMES CAUSES A TYPE 1 SPECTRAL SHIFT, SIMILAR TO THAT SEEN FOR PHENOBARBITAL(11),WHICH INDICATES THE DIRECT INVOLVEMENT OF A CYTOCHROME P-450 SPECIES;THIS DIFFERENCE SPECTRUM IS CHARACTERISTIC OF SUBSTRATE BINDING TO THIS TYPE OF ENZYME. A GLUTATHIONE CONJUGATE IS PROBABLY FORMED, PERHAPS VIA A REACTIVE INTERMEDIATE.

DESCRIPTORS ***** VCM;METABOLISM;IN VITRO;RATS;LIVER
 HELD TERMS CANCER LETTER;
 REVIEW YEAR 1990

Item 325

ACCESSION NUMBER 666
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT A GAS-CHROMATOGRAPHIC METHOD FOR THE PREPARATION OF 14C-LABELED VINYL CHLORIDE
 AUTHOR/AFFILIATION MAGNER ER,DOW CHEMICAL CO;MUELDER WM,SAME;MATANABE PG,SAME;HEFNER RE,SAME; BRAUN WM,SAME;GEHRING PJ,SAME;
 ORIGIN NONE,VOL 11 NO.4 PP.535-542;
 DATE 1975
 DESCRIPTORS ***** VCM
 HELD TERMS SYNTHESIS;RADIO LABELED; J OF LABELLED COMPOUNDS;
 REVIEW YEAR 1990

Item 326

ACCESSION NUMBER 665
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT ACTIVATION OF VINYL CHLORIDE TO COVALENTLY BOUND METABOLITES: ROLES OF 2-CHLOROETHYLENE OXIDE AND 2-CHLOROACETALDEHYDE
 AUTHOR/AFFILIATION GUENGERICH FP,NONE;CRAWFORD WM,NONE;MATANABE PG,NONE;
 ORIGIN NONE,VOL 18 NO.23 PP.5177-5182;
 DATE 1979
 DESCRIPTORS ***** VCM;METABOLISM;IN VITRO;RATS;LIVER
 HELD TERMS COVALENT BINDING;ACTIVATION ;2-CHLOROETHYLENE OXIDE;2-CHLOROACETALDEHYDE;BIOCHEMISTRY
 REVIEW YEAR 1990

Item 327

ACCESSION NUMBER 664
 FILE LOCATION GEN
 DOCUMENT TYPE PAPER
 TITLE OR SUBJECT TESTIMONY: PHARMACOKINETICS OF VINYL CHLORIDE

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AUTHOR/AFFILIATION GEHRING PJ,DOM CHEMICAL CO;
ORIGIN DOM CHEMICAL CO,FOR HEARING ON EPA'S PROPOSED STANDARD FOR VINYL CHLORIDE;
DATE 1976, FEBRUARY 2
ABSTRACT USE OF PHARMACOKINETICS IN RISK ASSESSMENT. EXTRAPOLATION OF RODENT DATA TO MAN. VCM AN EXAMPLE.
DESCRIPTORS ***** VCM;INHALATION;CARCINOGENICITY;RATS;HUMANS
HELD TERMS INCIDENCE;LOW DOSE EXTRAPOLATION
REVIEW YEAR 1990

Item 328

ACCESSION NUMBER 663
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT ACRO-OSTEOLYSIS OCCURRING IN MEN ENGAGED IN THE POLYMERIZATION OF VINYL CHLORIDE
AUTHOR/AFFILIATION HARRIS DK,ICI,ADAMS WGF,SAME;
ORIGIN NONE,VOL 3 PP.712-714;
DATE 1967
ABSTRACT TWO CASES OF ACRO-OSTEOLYSIS OCCURRING IN MEN ENGAGED IN THE POLYMERIZATION OF VINYL CHLORIDE ARE DESCRIBED. THE BONES AFFECTED WERE THE TERMINAL PHALANGES OF THE FINGERS AND THE SACROILIAC JOINTS, BUT IN ONE CASE THE PATELLA AND IN THE OTHER THE PHALANGES OF THE FEET WERE INVOLVED. THE CONDITION WAS ACCOMPANIED BY RAYNAUD'S PHENOMENON AND SKIN LESIONS. IT WOULD SEEM THAT THIS CONDITION IS PROBABLY A SELF-LIMITING DISEASE.
DESCRIPTORS ***** ACROOSTEOLYSIS;VCM;HUMAN;EFFECTS
HELD TERMS BRITISH MEDICAL JOURNAL
REVIEW YEAR 1990

Item 329

ACCESSION NUMBER 647
FILE LOCATION GEN
DOCUMENT TYPE BOOK
TITLE OR SUBJECT PERCUTANEOUS ABSORPTION OF VINYL CHLORIDE
AUTHOR/AFFILIATION HEFNER RE,NONE;MATANABE PG,NONE;GEHRING PJ,NONE;
ORIGIN TOX AND APPLIED,VOL 34 PP.529-532;
DATE 1975
ABSTRACT PERCUTANEOUS ABSORPTION OF 14C-LABELED VINYL CHLORIDE (VC) WAS EXAMINED IN MALE RHESUS MONKEYS. TWO MONKEYS WERE EXPOSED (WHOLE BODY, EXCLUDING THE HEAD) TO ATMOSPHERES CONTAINING 7000 AND 800 PPM OF VC FOR 2.0 AND 2.5 HR,RESPECTIVELY. THE AMOUNT OF VC ABSORBED AT 7000 AND 800 PPM WAS 0.023 AND 0.31% OF THE RESPECTIVE TOTAL VC AVAILABLE FOR ABSORPTION. THE MAJORITY OF THE VC ABSORBED WAS ELIMINATED BY THE LUNGS.
DESCRIPTORS ***** VCM;ABSORPTION;SKIN
HELD TERMS ATMOSPHERIC EXPOSURE;PERCUTANEOUS
REVIEW YEAR 1995

Item 330

ACCESSION NUMBER 646
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HEPATIC LESIONS CAUSED BY VINYL CHLORIDE MONOMER IN HUMANS: STUDY OF EIGHT CLINICOPATHOLOGICAL

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CASES
 AUTHOR/AFFILIATION PIALAT J,NONE;PASQUIER B,NONE;PAHN M,NONE;KOPP N,NONE;
 ORIGIN NONE,VOL 27 NO.6 PP.361-375;
 DATE 1979
 ABSTRACT SIX HEPATIC ANGIOSARCOMAS, ONE HEPATOMA AND ONE HEPATIC FIBROSIS WITH PORTAL HYPERTENSION IN PATIENTS CHRONICALLY EXPOSED TO VINYL CHLORIDE MONOMER (VCM) ARE REPORTED. THE INDUSTRIAL METHODS OF SYNTHESIS AND CURRENT KNOWLEDGE CONCERNING THE CARCINOGENIC ROLE OF VCM ARE REVIEWED. HISTOGENETIC AND PATHOGENETIC CONCEPTS OF FIBROSIS AND ANGIOSARCOMAS OF LIVER ARE EXPOSED.
 DESCRIPTORS ***** VCM;ANGIOSARCOMA;LIVER;CANCER;HUMAN;EFFECTS
 HELD TERMS ARCH ANAT CYTOL PATH
 REVIEW YEAR 1990

Item 331

ACCESSION NUMBER 619
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT INVESTIGATION OF THE DISEASES PRODUCED BY VINYL CHLORIDE
 AUTHOR/AFFILIATION SUCIU I,NONE;
 ORIGIN NONE,VOL 15 PP. 967-78;
 DATE 1963, AUGUST
 DESCRIPTORS ***** VINYL CHLORIDE;TOXICITY
 HELD TERMS LIVER DAMAGE;MEDICINA INTERNA (BUCHAREST); INSTITUTE OF HYGIENE OF CLUJ;
 COMMENTS MNJ(84) CLASSIC EARLY PAPER ASSOCIATING VCM EXPOSURE WITH BOTH LIVER AND SCLERODERMAL LIKE EFFECTS.
 REVIEW YEAR 1990

Item 332

ACCESSION NUMBER 616
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT ANGIOGRAPHIC AND RADIONUCLIDE CHARACTERISTICS OF HEPATIC ANGIOSARCOMA FOUND IN VINYL CHLORIDE WORKERS
 AUTHOR/AFFILIATION MHELAN JG,UNIV OF LOUISVILLE;CREECH JL,NONE;TAMBURO CH,NONE;
 ORIGIN NONE,VOL 118 NO.3 PP.549-557;
 DATE 1976, MARCH
 DESCRIPTORS ***** VINYL CHLORIDE;ANGIOSARCOMA;LIVER
 HELD TERMS ANGIOGRAPHY;LIVER SCANS;RADIOLOGY
 REVIEW YEAR 1990

Item 333

ACCESSION NUMBER 600
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT THE PATHOLOGY OF 111 CASES OF PRIMARY HEPATIC MALIGNANCY COLLECTED IN THE LIVERPOOL REGION
 AUTHOR/AFFILIATION CRUICKSHANK AH,NONE;
 ORIGIN NONE,VOL 14 PP.120-131;
 DATE 1961, MARCH

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ABSTRACT

THE CLINICAL RECORDS AND PRESERVED SPECIMENS OF 111 CASES OF PRIMARY MALIGNANT DISEASE OF THE LIVER HAVE BEEN ANALYSED. ALL WERE DIAGNOSED IN THE MERSEYSIDE AREA, CHIEFLY IN LIVERPOOL AND BIRKENHEAD, AND ALL BUT NINE WERE EUROPEANS. NECROPSY WAS DONE IN 89. THE TUMOURS CONSISTED OF 108 CARCINOMAS, TWO SARCOMAS, AND ONE MIXED TUMOUR. LIVER CELL CARCINOMA WAS NEARLY FOUR TIMES MORE FREQUENT THAN CARCINOMA OF THE INTRAHEPATIC BILE DUCTS. BOTH TYPES WERE COMMONER IN MALES, THE DIFFERENCE BETWEEN THE SEXES BEING GREATER IN THE CASE OF LIVER CELL CARCINOMA. PREDISPOSING CONDITIONS INCLUDED PORTAL CIRRHOSIS, HAEMOCHROMATOSIS, AND CYSTIC MALFORMATIONS OF BILE DUCTS. THE GROSS AND MICROSCOPIC APPEARANCES ARE DESCRIBED AND THE PATHOLOGICAL EFFECTS DISCUSSED. LIVER CELL CARCINOMA TENDS TO INVADe AND PERMEATE VEINS WITHIN THE LIVER BUT SEEMS, NEVERTHELESS, TO REMAIN LIMITED TO THE LIVER FOR LONGER THAN CARCINOMA OF THE INTRAHEPATIC BILE DUCTS. LIVER CELL CARCINOMA IS MORE CHARACTERISTIC MICROSCOPICALLY. THE COMMONEST OCCUPATION AMONG THE MALE CASES WAS SEAFARER.

DESCRIPTORS ***** VCM;LIVER;CANCER;HUMAN;EFFECTS
 HELD TERMS J.CLIN.PATH.;UNIV OF LIVERPOOL;
 REVIEW YEAR 1990

Item 334

ACCESSION NUMBER 599
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS - A CLINICAL INVESTIGATION OF POLYVINYL CHLORIDE SYNTHESIS WORKERS
 AUTHOR/AFFILIATION DINMAN BD,UNIV OF MICHIGAN;DODSON VN,SAME;MAGNUSON HJ,SAME;WHITEHOUSE WM, SAME;
 ORIGIN UNKNOWN
 DATE 1969
 DESCRIPTORS ***** VCM;AOL;HUMAN;EFFECTS
 REVIEW YEAR 1990

Item 335

ACCESSION NUMBER 595
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT MUTAGENICITY OF VINYL CHLORIDE,VINYLDENE CHLORIDE AND CHLOROPRENE IN V79 CHINESE HAMSTER CELLS
 AUTHOR/AFFILIATION DREVON C,NONE;KUROKI T,SAME;
 ORIGIN NONE,VOL 67 PP.173-182;
 DATE 1979
 ABSTRACT VCM WAS MUTAGENIC BUT VDC AND CHLOROPRENE WERE NOT.
 DESCRIPTORS ***** VCM;MUTAGENICITY;IN VITRO;CHLOROPRENE;VDC
 HELD TERMS IARC; MUTATION RESEARCH;
 REVIEW YEAR 1990

Item 336

ACCESSION NUMBER 594
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT CARCINOGENICITY OF CHLOROETHYLENE OXIDE,AN ULTIMATE REACTIVE METABOLITE OF VINYL CHLORIDE, AND BIS(CHLOROMETHYL)ETHER AFTER SUBCUTANEOUS ADMINISTRATION AND IN INITIATION-PROMOTION EXPERIMENTS IN MICE

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AUTHOR/AFFILIATION ZAJDELA F,NONE;CROISY A,SAME;BARBIN A,SAME;MALAVEILLE C,SAME;TOMATIS L, SAME;BARTSCH H,SAME;
ORIGIN CANCER RESEARCH,VOL 40 PP.352-356;
DATE 1980, FEBRUARY
ABSTRACT OUR RESULTS SUPPORT THE HYPOTHESIS THAT EPOXIDATION OF THE ETHYLENIC DOUBLE BOND IN VINYL
CHLORIDE YIELDS AN ULTIMATE CARCINOGENIC METABOLITE, CHLOROETHYLENE OXIDE, A HIGHLY REACTIVE
COMPOUND WHICH APPEARS ALSO TO BE LARGELY RESPONSIBLE FOR THE KNOWN GENETIC CHANGES CAUSED BY THE
PARENT COMPOUND.
DESCRIPTORS ***** VCM;CARCINOGENICITY;BIS-CHLOROMETHYL ETHER;METABOLISM;MICE;SUBCUTANEOUS
HELD TERMS CHLOROETHYLENE OXIDE; IARC;
REVIEW YEAR 1990

Item 337

ACCESSION NUMBER 593
FILE LOCATION GEN
DOCUMENT TYPE RESEARCH LAB REPORT
TITLE OR SUBJECT HEPATIC MACROMOLECULAR BINDING FOLLOWING EXPOSURE TO VINYL CHLORIDE
AUTHOR/AFFILIATION MATANABE PG,DOM CHEMICAL CO;ZEMPEL JA,SAME;PEGG DG,SAME;GEHRING PJ,SAME;
ORIGIN DOM CHEMICAL CO,TOXICOLOGY RESEARCH LAB;
DATE 1977, APRIL 5
ABSTRACT THE COVALENT BINDING TO HEPATIC MACROMOLECULES WAS RELATED TO THE AMOUNT OF VC METABOLIZED. AT
EXPOSURES GREATER THAN 50 PPM, THE AMOUNT OF 14C BOUND TO MACROMOLECULES IN THE LIVER CORRELATES
WITH INDUCTION OF HEPATIC ANGIOSARCOMA. THERE WAS NO PREFERENTIAL BINDING OF RADIOACTIVITY TO
EITHER DNA OR RNA IN THE LIVER. HEPATIC GLUTATHIONE CONTENT WAS SIGNIFICANTLY DEPRESSED ONLY AT
EXPOSURE CONCENTRATIONS GREATER THAN 100 PPM.
DESCRIPTORS ***** VCM;DNA
HELD TERMS COVALENT BINDING;ALKYLATION;MACROMOLECULAR;RNA;
REVIEW YEAR 1990

Item 338

ACCESSION NUMBER 592
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT LACK OF MUTAGENIC EFFECT OF VINYL CHLORIDE MONOMER IN THE MAMMALIAN SPOT TEST
AUTHOR/AFFILIATION PETER S,NONE;UNGARY G,NONE;
ORIGIN NONE,VOL 77 PP.193-196;
DATE 1980
DESCRIPTORS ***** VCM;IN VIVO;MUTAGENICITY
HELD TERMS MAMMALIAN SPOT TEST; MUTATION RESEARCH
REVIEW YEAR 1995

Item 339

ACCESSION NUMBER 591
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT DNA ALKYLATION BY VINYL CHLORIDE METABOLITES: ETHENO DERIVATIVES OR 7-ALKYLATION OF GUANINE?
AUTHOR/AFFILIATION LAIB RJ,NONE;GWINNER LM,SAME;BOLTIM,SAME;
ORIGIN NONE,VOL 37 PP.219-231;

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BFG52031

DATE 1981
ABSTRACT IT IS CONCLUDED THAT THE COMPOUND DESCRIBED BY THESE AUTHORS, 7-N-(2-OXOETHYL)GUANINE IS IN FACT THE MAJOR PRODUCT OF BASE ALKYLATION IN DNA AFTER EXPOSURE TO VINYL CHLORIDE.
DESCRIPTORS ***** VCM;DNA;INHALATION;RATS;LIVER
HELD TERMS 7-N-(2-OXOETHYL)GUANINE;ALKYLATION; UNIV OF MAINZ (GERMANY);CHEM. BIOL. INTERACTIONS;
REVIEW YEAR 1990

Item 340

ACCESSION NUMBER 590
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT ROLES OF 2-HALOETHYLENE OXIDES AND 2-HALOACETALDEHYDES DERIVED FROM VINYL BROMIDE AND VINYL CHLORIDE IN IRREVERSIBLE BINDING TO PROTEIN AND DNA
AUTHOR/AFFILIATION GUENGERICH FP,NONE;MASON PS,SAME;STOTT MT,DOM CHEMICAL CO;FOX TR, SAME;MATANABE PG,SAME;
ORIGIN CANCER RESEARCH,VOL 41 PP.4391-4398;
DATE 1981, NOVEMBER
DESCRIPTORS ***** VCM;DNA ;CHLOROACETALDEHYDE
HELD TERMS IRREVERSIBLE BINDING;COVALENT BINDING;CHLOROETHYLENE OXIDE; BROMOACETALDEHYDE; VANDERBILT UNIV;
REVIEW YEAR 1990

Item 341

ACCESSION NUMBER 589
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT MUTAGENICITY IN VITRO AND POTENTIAL CARCINOGENICITY OF CHLORINATED ETHYLENES AS A FUNCTION OF METABOLIC OXIRANE FORMATION
AUTHOR/AFFILIATION GREIM H,NONE;BONSE G,NONE;RADWAN Z,NONE;REICHERT D,NONE;HENSCHLER D,NONE;
ORIGIN NONE,VOL 24 PP.2012-2017;
DATE 1975, JULY
DESCRIPTORS ***** VCM;TETRACHLOROETHYLENE;TRICHLOROETHYLENE;ETHYLENE DICHLORIDE;MUTAGENICITY; IN VITRO;OXIRANE
HELD TERMS EPOXIDES;CHLORINATED ETHYLENES;CHLORINATED HYDROCARBONS;BIOCHEMICAL PHARMACOLOGY
REVIEW YEAR 1990

Item 342

ACCESSION NUMBER 588
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT REACTIVE METABOLITES AND CARCINOGENICITY OF HALOGENATED ETHYLENES
AUTHOR/AFFILIATION BOLT HM,NONE;LAIB RJ,NONE;FILSER JG,NONE;
ORIGIN NONE,VOL 31 NO.1 PP.1-4;
DATE 1982
ABSTRACT COVALENT BINDING,METABOLISM AND MUTAGENICITY OF VCM,VINYL FLUORIDE,VINYL IDENE FLUORIDE, VINYLIDENE CHLORIDE,EDC,TRICHLOROETHYLENE, PERCHLOROETHYLENE,VINYL BROMIDE.
DESCRIPTORS ***** VCM;VINYLIDENE CHLORIDE;ETHYLENE DICHLORIDE;TRICHLOROETHYLENE;PERCHLOROETHYLENE;MUTAGENICITY;
METABOLISM
HELD TERMS COVALENT BINDING; VINYL FLUORIDE;VINYLIDENE FLUORIDE;EDC;VINYL BROMIDE; TCE;BIOCHEMICAL PHARMACOLOGY;

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Item 343

ACCESSION NUMBER 587
 FILE LOCATION GEN
 DOCUMENT TYPE RESEARCH LAB REPORT
 TITLE OR SUBJECT LIFE-SPAN ORAL TOXICITY STUDY OF VINYL CHLORIDE IN RATS
 AUTHOR/AFFILIATION FERON VJ,NONE;HENDRIKSEN CFM,NONE;SPEEK AJ,NONE;TIL HP,NONE;SPIT BJ, NONE;
 ORIGIN NONE,REPORT NO.R-5788;
 DATE 1978, OCTOBER
 ABSTRACT THE CARCINOGENICITY OF VCM (IN PVC AND BY INTUBATION WAS STUDIED. A VARIETY OF NEOPLASTIC AND NON-NEOPLASTIC VCM-RELATED LIVER LESIONS WERE FOUND IN EACH OF THE TEST GROUPS. HEPATIC ANGIOSARCOMAS OCCURRED AT LEVELS OF 5.0 MG/KG AND HIGHER. HEPATOCELLULAR TUMOURS (NEOPLASTIC NODULES AND CARCINOMAS) WERE FOUND IN ALL DOSE-GROUPS. THEIR INCIDENCE WAS HIGH IN BOTH SEXES OF THE 14.1 MG/KG GROUP AND IN FEMALES OF THE 1.7 AND 5.0 MG/KG GROUPS, LOW IN MALES OF THE 5.0 MG/KG GROUP, AND MARGINAL IN MALES OF THE 1.7 MG/KG GROUP. PULMONARY ANGIOSARCOMAS (MAINLY METASTASES) AND A FEW EXTRAHEPATIC INTRA- ABDOMINAL ANGIOSARCOMAS WERE OBSERVED AT LEVELS OF 5.0 MG/KG AND HIGHER. A FEW ZYMBAL GLAND TUMOURS OCCURRED AT THE 5.0 AND 300 MG/KG LEVELS. THERE WAS SOME INDICATION THAT VCM MAY ENHANCE THE DEVELOPMENT OF BOTH INTRA-ABDOMINAL MESOTHELIOMAS AND ADENOCARCINOMAS OF THE MAMMARY GLANDS. THE TUMOUR RESPONSE OF THE LIVER OF THE RAT TO ORAL INTAKE OF VCM SEEMS TO SHIFT FROM ALMOST EXCLUSIVELY ANGIOSARCOMA AT VERY HIGH LEVELS TO EXCLUSIVELY HEPATOCELLULAR TUMOURS AT LOW LEVELS.

DESCRIPTORS ***** VCM;RATS;CHRONIC;CARCINOGENICITY;ANGIOSARCOMA;ADENOMA;ZYMBAL GLAND;MAMMARY GLAND;MESOTHELIOMA; TUMORS
 HELD TERMS CENTRAL INSTITUTE FOR NUTRITION AND FOOD RESEARCH;
 REVIEW YEAR 1995

Item 344

ACCESSION NUMBER 586
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT VINYL CHLORIDE: AN EXAMPLE FOR EVALUATING MUTAGENIC EFFECTS IN MAMMALS IN VIVO AFTER EXPOSURE TO INHALATION
 AUTHOR/AFFILIATION BASLER A,NONE;ROHRBORN G,NONE;
 ORIGIN NONE,VOL 45 PP.1-7;
 DATE 1980
 ABSTRACT AS PART OF A PROGRAMME OF INVESTIGATIONS ON THE MUTAGENIC EFFECTS IN MAMMALS IN VIVO AFTER INHALATION OF ENVIRONMENTAL CHEMICALS, THE EFFECTS OF THE INDUSTRIAL COMPOUND VINYL CHLORIDE (VC) WAS ANALYSED. CHINESE HAMSTERS WERE EXPOSED TO 1.25%,2.5% OR 5%(V/V) VC IN AIR FOR 6,12 OR 24 H. BONE MARROW CHROMOSOMES WERE ANALYSED FOR INDUCED CHROMOSOME ABERRATIONS AND SISTER-CHROMATID-EXCHANGES (SCES) 26 HR AFTER BEGINNING OF EXPOSURE. THE FREQUENCY OF VC- INDUCED CHROMOSOME ABERRATIONS AND SCES BOTH DEPEND ON DOSE AND LENGTH OF EXPOSURE. THE HIGHEST MEASURED EFFECTS WERE 33.25 SCES/CELL AFTER EXPOSURE TO 2.5% VC FOR 24 H AND 25.7% METAPHASES WITH ABERRATIONS, WHEN EXPOSED TO 5% VC FOR 24 H.

DESCRIPTORS ***** VCM;MUTAGENICITY;BONE MARROW;CHROMOSOMAL ABERRATION;HAMSTERS;INHALATION
 HELD TERMS SCE;SISTER CHROMATID EXCHANGE;ARCH TOXICOL;
 REVIEW YEAR 1995

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Item 345

ACCESSION NUMBER 584
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT REACTIONS OF VINYL CHLORIDE WITH RNA AND DNA OF VARIOUS MOUSE TISSUES IN VIVO
AUTHOR/AFFILIATION BERGMAN K,NONE;
ORIGIN NONE,VOL 49 PP.117-129;
DATE 1982
ABSTRACT THE AUTHORS REPORT THE IRREVERSIBLE BINDING OF VCM WITH THE RNA AND DNA OF SEVERAL TISSUES.
DESCRIPTORS ***** VCM;DNA;MICE
HELD TERMS RNA;ALKYLATION;IRREVERSIBLE BINDING;UNIV OF UPPSALA (SWEDEN); ARCH TOXICOL;
REVIEW YEAR 1995

Item 346

ACCESSION NUMBER 583
FILE LOCATION GEN
DOCUMENT TYPE TRADE ASSOCIATION REPORT
TITLE OR SUBJECT FINAL REPORT OF AUDIT TASK GROUP ON LIFETIME INHALATION STUDY ON VINYL CHLORIDE AT INDUSTRIAL
AUTHOR/AFFILIATION BIO-TEST LABS, INC.
ORIGIN NONE,NONE;
DATE CMA
DESCRIPTORS ***** VCM;INHALATION;RATS;MICE;HAMSTERS;CARCINOGENICITY;CHRONIC
HELD TERMS AUDIT;
REVIEW YEAR 1990

Item 347

ACCESSION NUMBER 582
FILE LOCATION GEN
DOCUMENT TYPE RESEARCH LAB REPORT
TITLE OR SUBJECT VINYL CHLORIDE PATHOLOGY REPORT
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,FOR MCA;
DATE 1979, JANUARY 9
ABSTRACT AUDIT PATHOLOGY REPORT OF LONG-TERM INHALATION STUDY OF VCM AT IBT.
DESCRIPTORS ***** VCM;INHALATION;RATS;MICE;HAMSTERS;CARCINOGENICITY;CHRONIC
HELD TERMS PATHOLOGY;EXPERIMENTAL PATHOLOGY LABS;
REVIEW YEAR 1990

Item 348

ACCESSION NUMBER 581
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT CHRONIC VAPOR INHALATION TOXICITY STUDY WITH VINYL CHLORIDE (ETHYLENE DERIVED) IN ALBINO RATS,
ALBINO MICE AND GOLDEN HAMSTERS-- 23-MONTH STATUS SUMMARY TO MCA

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BFG52034

AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN INDUSTRIAL BIO-TEST LABS,IBT NO. 663-03222;
 DATE 1975, SEPTEMBER 23
 ABSTRACT THIS 23-MONTH STATUS REPORT (9/10/73-9/10/74) IS THE LAST REPORT RECEIVED FROM IBT. NO FINAL REPORT HAS EVER PROVIDED. SEE EXPERIMENTAL PATHOLOGY LABS,BOB MEST +ASSOCIATES, AND AUDIT GROUP REPORTS.
 DESCRIPTORS ***** VCM;INHALATION;CARCINOGENICITY;CHRONIC;RATS;MICE;HAMSTERS
 REVIEW YEAR 1990

Item 349

ACCESSION NUMBER 580
 FILE LOCATION GEN
 DOCUMENT TYPE TOXICITY DATA
 TITLE OR SUBJECT CHRONIC VAPOR INHALATION TOXICITY STUDY WITH VINYL CHLORIDE
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN INDUSTRIAL BIO-TEST LABS,FOR CMA;
 DATE 1973, FEBRUARY
 ABSTRACT PROTOCOL FOR LONG-TERM INHALATION STUDY WITH VINYL CHLORIDE SPONSORED BY CMA (MCA) AT INDUSTRIAL BIO-TEST LABS.
 DESCRIPTORS ***** VCM;INHALATION;CARCINOGENICITY;CHRONIC;RATS;MICE;HAMSTERS
 REVIEW YEAR 1990

Item 350

ACCESSION NUMBER 579
 FILE LOCATION GEN
 DOCUMENT TYPE CORRESPONDENCE
 TITLE OR SUBJECT PROTOCOL AMENDMENTS AND COMMUNICATION FOR THE VCM LONG-TERM INHALATION STUDY
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN INDUSTRIAL BIO-TEST LABS,FOR CMA;
 DATE 1973, TO 1978
 ABSTRACT PROTOCOL AMENDMENTS AND COMMUNICATIONS REGARDING THE LONG-TERM INHALATION STUDY WITH VINYL CHLORIDE SPONSORED BY CMA(MCA) AND CONDUCTED AT INDUSTRIAL BIO-TEST LABORATORIES.
 DESCRIPTORS ***** INHALATION;CARCINOGENICITY;CHRONIC;RATS;MICE;HAMSTERS;VCM
 REVIEW YEAR 1990

Item 351

ACCESSION NUMBER 578
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT VINYL HALIDES CARCINOGENICITY
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NIOSH,AND OSHA CURRENT INTELLIGENCE BULLETIN NO.28;
 DATE 1978, SEPTEMBER 21
 DESCRIPTORS ***** VINYL CHLORIDE;VINYLIDENE CHLORIDE;HUMAN;ANIMAL CARCINOGEN; CARCINOGENICITY;MUTAGENICITY; REPRODUCTION;EFFECTS
 HELD TERMS VINYL BROMIDE;
 REVIEW YEAR 1990



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Item 352

ACCESSION NUMBER 548
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT CARDIOVASCULAR DISEASE AND ENVIRONMENTAL EXPOSURE
 AUTHOR/AFFILIATION ROSENMAN KD,NONE;
 ORIGIN NONE,VOL 38 PP.85-97;
 DATE 1979
 ABSTRACT THIS PAPER REVIEWS THE POSSIBLE ASSOCIATION BETWEEN CARDIOVASCULAR DISEASE AND OCCUPATIONAL AND ENVIRONMENTAL AGENTS. THE EFFECTS OF CARBON MONOXIDE,FIBROGENIC DUSTS, CARBON DISULPHIDE,HEAVY METALS, NOISE,RADIATION,HEAT,COLD,SOLVENTS AND FLUOROCARBONS ARE DISCUSSED. NOISE,RADIATION,HEAT, COLD,SOLVENTS AND FLUOROCARBONS ARE DISCUSSED.NEWDIRECTIONS FOR INVESTIGATION ARE SUGGESTED.
 DESCRIPTORS ***** HEART;CARBON MONOXIDE;DUST;CARBON DISULFIDE;NITRATES;ANTIMONY;CADMIUM; LEAD;COBALT;MERCURY;00161; VINYL CHLORIDE;NOISE;HYPERTENSION;METHYLENE CHLORIDE; RADIATION;FLUOROCARBONS;CIGARETTE SMOKE
 HELD TERMS ATHEROSCLEROSIS;HYPOCALCAEMIA;ARRHYTHMIA;POLONIUM 210;ELECTROMAGNETIC RADIATION;LEAD 210; CARDIOVASCULAR DISEASE;GLYCERYL TRINITRATE; ETHYLENE GLYCOL DINITRATE;EXPLOSIVES;CARDIOMYOPATHY; MOUNT SINAI SCHOOL OF MEDICINE;BRITISH J OF INDUSTRIAL MEDICINE;
 COMMENTS BLH(84) GOOD GENERAL ARTICLE ON POSSIBLE ENVIRONMENTAL CAUSES OF HEART DISEASE WITH MANY REFERENCES CITED.
 REVIEW YEAR 1989

Item 353

ACCESSION NUMBER 470
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT ETHENE, CHLORO, (CAS# 75-01-4): BFG TSCA INVENTORY SUBMISSION, FORM# A12797346, CALVERT CITY.
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN BFG-CHEMICAL, TO EPA;
 DATE 1978
 ABSTRACT TSCA INVENTORY SUBMISSION OF VINYL CHLORIDE. DOCUMENT IN CHEMICAL GROUP ENVIRON AFFAIRS DEPT FILES.
 DESCRIPTORS ***** CAS.NO.75-01-4;TSCA INVENTORY;VCM
 REVIEW YEAR 1990

Item 354

ACCESSION NUMBER 448
 FILE LOCATION GEN
 DOCUMENT TYPE BIBLIOGRAPHY
 TITLE OR SUBJECT VINYL CHLORIDE AND POLYVINYL CHLORIDE: TOXICOLOGY (1978-1983) - CITATIONS FROM THE LIFE SCIENCES COLLECTION DATA BASE
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE,PB84-855618;
 DATE 1984
 DESCRIPTORS ***** VCM;PVC;EPIDEMIOLOGY;CANCER;BIRTH DEFECTS;MUTAGENICITY;REPRODUCTION; METABOLISM;TOXICITY DATA
 HELD TERMS NTIS
 REVIEW YEAR 1990

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Item 355

ACCESSION NUMBER 388
FILE LOCATION GEN
DOCUMENT TYPE GOVERNMENT CORR
TITLE OR SUBJECT SAFETY OF PLASTIC PIPES FOR USE IN POTABLE WATER DISTRIBUTION
AUTHOR/AFFILIATION HANSON HF,EPA;
ORIGIN EPA,TO BFG-CHEMICAL;
DATE 1982
ABSTRACT EPA POSITION STATEMENT ON PLASTIC PIPE.
DESCRIPTORS ***** EPA,PVC,VINYL CHLORIDE,MIGRATION
HELD TERMS PLASTIC PIPE,POTABLE WATER,LEACHING;
REVIEW YEAR 1986

Item 356

ACCESSION NUMBER 387
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT USE OF METAL AND PLASTIC PIPES IN WATER SUPPLY DISTRIBUTION SYSTEMS
AUTHOR/AFFILIATION LASSOVASKY P,EPA;KHAN T,SAME;
ORIGIN EPA
DATE 1981
ABSTRACT EPA POSITION PAPER ON PLASTIC PIPE AND THE OCCURRENCE OF DEHP (PLASTICIZER). ALSO DISCUSSED
DISCONTINUATION OF LEAD PIPE DUE TO HEAVY METAL PROBLEMS.
DESCRIPTORS ***** EPA,DEHP,VINYL CHLORIDE,PVC
HELD TERMS PLASTIC PIPE,POTABLE WATER,METAL PIPE,LEACHING;
REVIEW YEAR 1986

Item 357

ACCESSION NUMBER 379
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL
TITLE OR SUBJECT HAZARDS EVALUATION & RISK CONTROL SERVICES DATA GUIDES
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,BULLETINS HE-145-164;
DATE 1984, MARCH
ABSTRACT DETAILED FLAMMABILITY DIAGRAMS ON VARIOUS CHEMICALS.
DESCRIPTORS ***** VINYL CHLORIDE,ACROLEIN,BUTADIENE,DIOXANE,NAPHTHALENE ,ANILINE
HELD TERMS ACETAL,ALLYL ALCOHOL,ISOAMYL ACETATE,AMYL ALCOHOL,BUTYL FORMATE, DIETHYLAMINE,ETHYL PROPIONATE,
PENTENE,CYMENE,ETHYLENE CHLOROHYDRIN,CHLORO BENZENE,METHYL BUTYL KETONE,METHYL PROPIONATE;
FLAMMABILITY, HERCULES INC,BUTYL CHLORIDE;
REVIEW YEAR 2059

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ACCESSION NUMBER 307
FILE LOCATION GEN

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DOCUMENT TYPE RESEARCH LAB REPORT
 TITLE OR SUBJECT LITERATURE REVIEW OF THE POTENTIAL HAZARDS TO HUMAN HEALTH OF USING PVC AND CPVC PIPE FOR POTABLE WATER DISTRIBUTION
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN SOUTHERN RESEARCH INSTITUTE,SORI-EAS-83-185;
 DATE 1983, FEBRUARY
 ABSTRACT A LITERATURE REVIEW OF POTENTIAL HEALTH HAZARDS OF PVC AND CPVC PIPE FOR POTABLE WATER USE. THIS IS NOT TERRIBLY WELL DONE. IT WAS SUBMITTED TO J OF AMERICAN WATER WORKS ASSOC (R MILGING, IT WAS SUBMITTED TO J OF AMERICAN WATER WORKS ASSOC (R MILGING,+REVIEMER). PUBLICATION STATUS IS UNKN.
 DESCRIPTORS ***** PVC;CPVC;ACUTE;EFFECTS;SUBCHRONIC;SOLVENTS;MIGRATION;FETAL TOXICITY; BENZENE;ACRYLONITRILE; TOLUENE;MUTAGENIC;TERATOGENIC;CARCINOGENICITY; VINYL CHLORIDE;CHLOROFORM;TETRACHLOROETHYLENE; TRICHLOROETHYLENE; DICHLOROETHANE;CARBON TETRACHLORIDE;TRICHLOROETHANE;STYRENE; METHYL METHACRYLATE;DEHP;THF;MEK;CHLORINE;HYDROGEN CHLORIDE; ORGANOTINS;TITANIUM DIOXIDE
 HELD TERMS CEMENTS;METHYL STYRENE;LEACHING;PVC PIPE;PLASTIC PIPE;
 REVIEW YEAR 1986

Item 359

ACCESSION NUMBER 293
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT HEALTH HAZARD EVALUATION/TOXICITY DETERMINATION REPORT:GATES RUBBER COMPANY
 AUTHOR/AFFILIATION GUNTER BJ,NIOSH;LUCAS JB,NIOSH;
 ORIGIN NIOSH,REPORT NO. H.H.E. 74-61-232;
 DATE 1975, NOVEMBER
 ABSTRACT A PLANT MANUFACTURING EXTRUDED HOSE, PRINCIPALLY FROM THE EXTRUSION OF POLYVINYL CHLORIDE, WAS INVESTIGATED BY NIOSH TO EVALUATE EMPLOYEE EXPOSURES TO CYCLOHEXANONE, TDI,TRICHLOROETHYLENE, ESTANE R THERMO- PLASTIC POLYURETHANE, METHYLENE CHLORIDE,NIGROSINE,DI-2-ETHYL HEXYL PHTHALATE (DOP OIL), DUST,AND VINYL CHLORIDE. IT WAS DETERMINED THAT A POTENTIAL HEALTH HAZARD MAY EXIST FROM EXPOSURE TO CYCLOHEXANONE ,AND THAT SEVERAL CASES OF PRIMARY IRRITANT DERMATITIS HAD OCCURRED FOLLOWING REPEATED EXPOSURE TO SOLVENTS. ALTHOUGH ONLY ONE OF 38 VINYL CHLORIDE SAMPLES WAS FOUND TO EXCEED THE FEDERAL STANDARD ACTION LEVEL, IT WAS RECOMMENDED THAT AIRBORNE CONCENTRATIONS BE REDUCED TO LEVELS NOT DETECTED BY THE RECOMMENDED ANALYTICAL TECHNIQUES.
 DESCRIPTORS ***** PVC;CYCLOHEXANONE;TOLUENE DIISOCYANATE;TRICHLOROETHYLENE; PLASTICS;METHYLENE CHLORIDE;DEHP;VINYL CHLORIDE;DERMATITIS;PATCH TEST;EXTRUSION;ESTANES;
 HELD TERMS PERSONNEL MONITORING;NIGROSINE;
 REVIEW YEAR 1992

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ACCESSION NUMBER 205
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT VINYL CHLORIDE DISORDER
 AUTHOR/AFFILIATION WALKER AE,NONE;
 ORIGIN NONE,VOL 105 SUPPL.21,19;
 DATE 1981,
 ABSTRACT BRIEF REVIEW OF MEDICAL AND EPIDEMIOLOGIC FINDINGS RELATED TO VINYL CHLORIDE IN PVC MANUFACTURE. COINAGE OF TERM VINYL CHLORIDE DISORDER.
 DESCRIPTORS ***** VCM;ACROOSTEOLYSIS;ANGIOSARCOMA;THROMBOCYTOPENIA;LUNGS;

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 Order number 901119-133245-MIZ -001-001
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HELD TERMS ROYAL HOSPITAL ENGLAND;BRITISH J OF DERMATOLOGY;PVC POWDER; CHLORETHYLENE EPOXIDE;RAYNAUD'S
 SYNDROME;SCLERODERMA;HEPATOMEGALY; SPLENOMEGALY;

Item 361

ACCESSION NUMBER 61
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT THE EFFECT OF AGE AND EXPOSURE DURATION ON CANCER INDUCTION BY A KNOWN CARCINOGEN IN RATS, MICE,
 AND HAMSTERS
 AUTHOR/AFFILIATION DREW RT,NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES;BOORMAN GA, SAME;HASEMAN JK,SAME;MC
 CONNELL EE,SAME;BUSEY MM,SAME;MOORE JA, SAME;
 ORIGIN TOXICOLOGY AND APPLIED PHARMACOLOGY, VOL 68 NO 1 PP.120-130;
 DATE 1983, MARCH 30
 ABSTRACT AT THE END OF THE STUDY THE INCIDENCE OF VC-INDUCED NEOPLASMS WAS COMPARED IN EACH OF THE GROUPS
 TO ASSESS THE EFFECTS OF DURATION OF EXPOSURE AND AGE AT THE START OF EXPOSURE ON CARCINOGENICITY
 OF VC. IN RATS, WITH EARLY INITIAL EXPOSURE, HEMANGIOSARCOMAS, HEPATOCELLULAR CARCINOMAS, AND
 MAMMARY GLAND CARCINOMAS OCCURRED WITH INCREASING INCIDENCE WITH LONGER EXPOSURE DURATION. RATS
 HELD FOR 6 MONTHS BEFORE EXPOSURE DEVELOPED VC-RELATED NEOPLASMS, WHILE RATS HELD 12 MONTHS
 BEFORE THE START OF EXPOSURE FAILED TO SHOW A SIGNIFICANTLY INCREASED INCIDENCE OF THESE
 NEOPLASMS. IN HAMSTERS HEMANGIOSARCOMAS, MAMMARY GLAND CARCINOMAS,GASTRIC ADENOCARCINOMAS, AND
 SKIN CARCINOMAS RESULTED FROM VC EXPOSURE. THE HIGHEST INCIDENCE OF MALIGNANT NEOPLASMS OCCURRED
 IN HAMSTERS EXPOSED FOR THE FIRST 12 MONTHS, WHEREAS EXPOSURE BEGUN AFTER 12 MONTHS OF AGE DID
 NOT CAUSE NEOPLASMS. IN BOTH STRAINS OF MICE, VC EXPOSURE DURING THE FIRST 6 MONTHS OF THE
 EXPERIMENT INDUCED A HIGH INCIDENCE OF HEMANGIOSARCOMAS AND MAMMARY GLAND CARCINOMAS. SWISS MICE
 ALSO DEVELOPED LUNG CARCINOMAS AFTER ONLY 6 MONTHS OF EXPOSURE. IN ALL THREE RODENT SPECIES AN
 INITIAL 12 MONTH EXPOSURE TO VC WAS ADEQUATE TO DETECT ITS CARCINOGENIC POTENTIAL, BUT THE
 SHORTENED SURVIVAL OF VC EXPOSED MICE AND HAMSTERS PRECLUDED A MEANINGFUL COMPARISON WITH LONGER
 PERIODS OF EXPOSURE. EXPOSURES WERE MOST EFFECTIVE WHEN STARTED EARLY IN LIFE.
 DESCRIPTORS ***** AGE; VINYL CHLORIDE;HAMSTERS;MICE;RATS;NEOPLASMS;HEMANGIOSARCOMA; MAMMARY GLAND;TUMOR;
 ADENOCARCINOMA;STOMACH;SKIN; LUNG;FIBROADENOMA;LIVER;

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ACCESSION NUMBER 59
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT EVALUATION OF THE ASSOCIATION BETWEEN BIRTH DEFECTS AND EXPOSURE TO AMBIENT VINYL CHLORIDE
 AUTHOR/AFFILIATION THERIAULT G, LAVAL UNIV;ITURRA H,SAME;GINGRAS S,SAME;
 ORIGIN TERATOLOGY,VOL 27 PP.359-370;
 DATE 1983, CIRCA
 ABSTRACT BIRTH DEFECTS INCIDENCE FOR INFANTS BORN TO RESIDENTS OF SHAMINIGAN,CANADA IN 1966-1979 WERE
 SIGNIFICANTLY HIGHER THAN IN THREE COMPARISON COMMUNITIES. SINCE THERE HAS BEEN A VINYL CHLORIDE
 POLYMERIZATION PLANT IN THIS TOWN SINCE 1943 FROM WHICH TEN CASES OF ANGIOSARCOMA OF THE LIVER
 HAVE BEEN IDENTIFIED, THIS STUDY EXPLORES THE POSSIBLE ASSOCIATION BETWEEN EXPOSURE TO VINYL
 CHLORIDE MONOMER (VCM) IN AMBIENT AIR AND THE OCCURRENCE OF BIRTH DEFECTS IN THE COMMUNITY.
 DESCRIPTORS ***** BIRTH DEFECTS;VCM;ANGIOSARCOMA;LIVER;POLYMERIZATION; HYPOSPADIAS;CATARACT;DOWNS SYNDROME;
 EPILEPSY;MENTAL DISORDERS; PSYCHOSIS;RUBELLA;PREGNANCY;CNS;SHAMINIGAN;

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ACCESSION NUMBER 57
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CONTROL OF EXPOSURE TO POLYVINYL CHLORIDE DUST
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN HEALTH AND SAFETY EXECUTIVE,GUIDANCE NOT EH 31;
DATE 1982, MAY
ABSTRACT THE HEALTH AND SAFETY COMMISSION'S ADVISORY COMMITTEE ON TOXIC SUBSTANCES HAS RECOMMENDED THAT,
IN LINE WITH THE COMMISSION'S GENERAL POLICY: EXPOSURE TO PVC DUST SHOULD BE KEPT AS LOW AS IS
REASONABLY PRACTICABLE; IN ANY CASE EXPOSURE SHOULD NOT EXCEED 10 MG/M3 FOR TOTAL PVC DUST IN AIR
AND 5 MG/M3 FOR RESPIRABLE PVC DUST IN AIR. THE EFFECTS OF EXPOSURE TO PVC DUST ARE REFERRED TO
IN PARAGRAPH 9 AND ADVICE IS GIVEN ON ASSESSMENT AND CONTROL IN PARAGRAPHS 10 TO 13. METHODS OF
SAMPLING AND MEASUREMENT ARE DESCRIBED IN PARAGRAPHS 14,15 AND THE APPENDIX.
DESCRIPTORS ***** PVC DUST;AIR; STABILIZERS;PLASTICIZERS;ANTIOXIDANTS;VINYL CHLORIDE MONOMER;AIR SAMPLING;TMA;
RESPIRABLE DUST;TOTAL DUST;DUST SAMPLING;

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