

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

Order number 911001-135640-MIZ -001-007

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Item 4

ACCESSION NUMBER 4592
FILE LOCATION GEN
DOCUMENT TYPE CORR
TITLE OR SUBJECT FEDERAL REGISTER VINYL CHLORIDE POLYMERS PROPOSAL PUBLISHED IN 1986
AUTHOR/AFFILIATION BACHTEL MC,BFG;
ORIGIN BFG,TO P ZALON (NESTLES FOOD CORP.);
DATE 1990, FEBRUARY 23
DESCRIPTORS ***** FDA;VCM;PVC;
HELD TERMS RVCM;
REVIEW YEAR 1996

Item 5

ACCESSION NUMBER 4414
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT MUTAGENICITY OF VINYL CHLORIDE IN MAN: COMPARISON OF CHROMOSOME ABERRATIONS WITH MICRONUCLEUS AND SISTER-CHROMATID EXCHANGE FREQUENCIES
AUTHOR/AFFILIATION FUCIC A,NONE;HORVAT D,NONE;DIMITROVIC B,NONE;
ORIGIN MUTATION RESEARCH,VOL. 242 PP. 265-270;
DATE 1990
ABSTRACT THE MUTAGENIC EFFECTS OF VINYL CHLORIDE MONOMER IN MAN WERE STUDIED IN THE LYMPHOCYTE CULTURE WITH 3 METHODS: THE CHROMOSOME ABERRATION ASSAY, THE MICRONUCLEUS ASSAY AND THE SISTER-CHROMATID EXCHANGE METHOD. COMPARED WITH CONTROL, VALUES OBTAINED BY THESE TESTS ARE INCREASED IN WORKERS OCCUPATIONALLY EXPOSED TO VINYL CHLORIDE. IN RELATION TO NON-SMOKERS, SMOKERS EXPOSED TO VINYL CHLORIDE SHOW SIGNIFICANT INCREASES IN SISTER- CHROMATID EXCHANGE FREQUENCIES. THE PROBLEM OF CORRELATING THE RESULTS OF THE CHROMOSOME ABERRATION ASSAY WITH MICRONUCLEUS AND SISTER-CHROMATID EXCHANGE FREQUENCIES IS DISCUSSED.
DESCRIPTORS ***** VCM;MUTAGENICITY;MAN;CHROMOSOMAL ABERRATION;
HELD TERMS INSTITUTE FOR MEDICAL RESEARCH & OCCUPATIONAL HEALTH(YUGOSLAVIA);
REVIEW YEAR 1996

Item 6

ACCESSION NUMBER 4409
FILE LOCATION GEN
DOCUMENT TYPE CORR
TITLE OR SUBJECT VCM CANCER RISK ASSESSMENT: COMMENTS SUBMITTED TO LOUISIANA DEPT. OF ENVIRONMENTAL QUALITY
AUTHOR/AFFILIATION GOTTESMAN RT,NONE;
ORIGIN NONE,TO LOUISIANA DEPT. OF ENVIRONMENTAL QUALITY FOR BFG;
DATE 1991, MAY 30
ABSTRACT REVIEW CONCLUDES THAT AN INTERIM AMBIENT STANDARD OF 37 UG/M3 AS DERIVED FROM THE 1984 EPA URF OF 2.7X10-6/(UG/M3) IS THE MOST SCIENTIFICALLY SOUND NUMBER AVAILABLE AT PRESENT.
DESCRIPTORS ***** VCM;CANCER;RISK ASSESSMENT;
HELD TERMS VINYL INSTITUTE;
REVIEW YEAR 1996

BFG52881

22521001

Item 7

ACCESSION NUMBER 4359
FILE LOCATION gen
DOCUMENT TYPE correspondence
TITLE OR SUBJECT teratogenicity of vcm among humans
AUTHOR/AFFILIATION none,none;
ORIGIN niosh,to department of health, education, and welfare
DATE 1975, december 4
ABSTRACT thus, while no conclusive data are available concerning mutagenesis in the human setting, such animal and laboratory findings suggest a need for caution with respect to human exposures, from information at hand, therefore, sufficient grounds exist for advising men and especially women in child-bearing years that vcm exposures can lead to an increased risk.

DESCRIPTORS ***** teratogenicity;vcm;humans
REVIEW YEAR 1966

Item 8

ACCESSION NUMBER 4335
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT PERSISTENT LIVER DYSFUNCTION AMONG WORKERS AT A VINYL CHLORIDE MONOMER POLYMERIZATION PLANT IN SINGAPORE
AUTHOR/AFFILIATION LEE FI,NONE;
ORIGIN NONE;
DATE 1991
ABSTRACT THE FOLLOWING ARE COMMENTS ON A PAPER IN J.SOC.OCCUP.MED. (1991) 41,10-16 BY S.F.HO,W.H.PHOON, S.L.GAN AND YK CHAN.THIS STUDY DESCRIBES CHANGES, PRESUMABLY MINOR, IN HEPATIC ENZYME TESTS. FLUCTUATIONS ARE DESCRIBED IN RELATION TO VINYL CHLORIDE EXPOSURE. NO CASE OF VINYL CHLORIDE INDUCED LIVER DISEASE, OR INDEED ANY OTHER SIGNIFICANT DISEASE, BECAME APPARENT DURING THE SEVERAL YEARS OF THE STUDY. THERE ARE NO CONTROLS. COMMENTS ABOUT THE POSSIBILITY OF SUBSEQUENT DEVELOPMENT OF ANGIOSARCOMA AND PURELY SPECULATIVE AND WOULD NOT CONFORM WITH SEVERAL PREVIOUS STUDIES IN WHICH THESE MINOR CHANGES HAVE BEEN FOUND WITHOUT CONCURRENT OR SUBSEQUENT EVIDENCE OF ANGIOSARCOMA. THREE INTERPRETATIONS ARE THEREFORE POSSIBLE. 1. THE LOW EXPOSURE LEVELS IN THE ATMOSPHERE AS DESCRIBED ARE CORRECT AND THAT THE LIVER FUNCTION TESTS FLUCTUATIONS ARE A PREVIOUS UNREPORTED ABNORMALITY IN ASSOCIATION TO THIS EXPOSURE. 2. ABNORMAL FINDINGS ARE NOT RELATED TO VINYL CHLORIDE EXPOSURE. 3. THERE WERE UNRECOGNIZED DEFECTS IN THE INDUSTRIAL HYGIENE OF THE FACTORY RESULTING IN MUCH HIGHER EXPOSURES TO VINYL CHLORIDE BY THE WORKERS THAN IS SUSPECTED.

DESCRIPTORS ***** VCM;LIVER;EFFECTS;WORKERS;
REVIEW YEAR 1996

Item 9

ACCESSION NUMBER 4334
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT PULMONARY EFFECTS OF POLYVINYL CHLORIDE DUST EXPOSURE ON COMPOUNDING WORKERS
AUTHOR/AFFILIATION NG TP,NONE;LEE HS,NONE;LOW YM,NONE;PHOON MH,NONE;NG YL,NONE;
ORIGIN NONE,VOL.17 PP. 53-59;

BFG52882

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DATE 1991
 ABSTRACT SPIROMETRY, CHEST RADIOGRAPHY, ENVIRONMENTAL MEASUREMENTS, AND A QUESTIONNAIRE ON RESPIRATORY SYMPTOMS WERE USED TO EVALUATE THE EFFECTS OF EXPOSURE TO POLYVINYL (PVC) DUST ON 171 CHINESE AND MALAY PVC COMPOUNDING WORKERS IN COMPARISON WITH AN UNEXPECTED REFERENCE GROUP. WORKERS WITH HIGH CUMULATIVE PVC DUST EXPOSURE HAD A LOWER FORCED EXPIRATORY VOLUME IN 1 S AND FORCED VITAL CAPACITY, AND A HIGHER PREVALENCE OR RADIOLOGICAL PROFUSION OF SMALL OPACITIES. WHEEZING OR CHEST TIGHTNESS WAS ALSO SIGNIFICANTLY MORE FREQUENT IN THIS GROUP. UNLIKE PREVIOUS STUDIES, THE PVC COMPOUNDING WORKERS IN THIS STUDY WERE EXPOSED TO ONLY NEGLIGIBLE AMOUNTS, IF ANY, OF VINYL CHLORIDE MONOMER OR THERMAL DEGRADATION PRODUCTS OF PVC SUCH AS HYDROGEN CHLORIDE, PHOSGENE, OR CHLORINE. THE CONCLUSION WAS DRAWN THAT A LOW GRADE OF PNEUMOCONIOSIS AND A SMALL DEGREE OF LUNG FUNCTION IMPAIRMENT IS ASSOCIATED WITH PVC DUST EXPOSURE. REVERSIBLE AIRWAYS OBSTRUCTION IS ALSO LIKELY AND WARRANTS FURTHER INVESTIGATION.

DESCRIPTORS ***** VCM;PVC DUST;RESPIRATORY EFFECTS;OCCUPATIONAL EXPOSURE;
 HELD TERMS SCAND J WORK ENVIRON HEALTH;
 REVIEW YEAR 1996

Item 10

ACCESSION NUMBER 4325
 FILE LOCATION GEN
 DOCUMENT TYPE TECHNICAL REPORT
 TITLE OR SUBJECT HEALTH ADVISORIES FOR 25 ORGANICS
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN EPA,PB87-235578;
 DATE 1987, MARCH
 DESCRIPTORS ***** DRINKING WATER;TOXICITY;ACRYLAMIDE;BENZENE;CARBON TETRACHLORIDE;CHLOROBENZENE;1,2-DICHLOROETHANE;
 1,1-DICHLOROETHYLENE;DICHLOROMETHANE; DIOXIN;EPICHLOROHYDRIN;ETHYLBENZENE;ETHYLENE GLYCOL;
 BENZENE;METHYL ETHYL KETONE;STYRENE;TETRACHLOROETHYLENE;TOLUENE;1,1,1-TRICHLOROETHANE;
 TRICHLOROETHYLENE;VINYL CHLORIDE;XYLENE;
 HELD TERMS TRANS-1,2-DICHLOROETHYLENE;DICHLOROBENZENE;CIS-1,2-DICHLOROETHYLENE;P-DIOXANE;HEXACHLOROBENZENE;
 REVIEW YEAR 1995

Item 11

ACCESSION NUMBER 4308
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT SISTER CHROMATID EXCHANGES, PROLIFERATING RATE INDEX, AND MICRONUCLEI IN BIOMONITORING OF
 INTERNAL EXPOSURE TO VINYL CHLORIDE MONOMER
 AUTHOR/AFFILIATION SINUES B,NONE;SANZ A,NONE;BERNAL ML,SAME;TRES A,NONE;ALCALA A,NONE;LANUZA J,NONE;CEBALLOS C,NONE;
 SAENZ MA,NONE;
 ORIGIN TOX AND APPLIED,VOL 108 PP.37-45;
 DATE 1991
 ABSTRACT THE FREQUENCY OF MICRONUCLEI(MN), SISTER CHROMATID EXCHANGE (SCE*), AND THE PROLIFERATING RATE INDEX IN PERIPHERAL BLOOD LYMPHOCYTES FROM 93 INDIVIDUALS WERE MEASURED. FIFTY-TWO OF THE INDIVIDUALS WERE WORKERS IN THE PLASTICS INDUSTRY WHERE THEY WERE EXPOSED TO VINYL CHLORIDE MONOMER WHILE THE REMAINING 41 INDIVIDUALS WERE WORKERS IN THE PLASTICS INDUSTRY WHERE THEY WERE EXPOSED TO VINYL CHLORIDE MONOMER WHILE THE REMAINING 41 INDIVIDUALS SERVED AS A CONTROL GROUP. IN OUR RESULTS, AN INCREASE OF SCE* AND MN, AS WELL AS INHIBITED CELL KINETICS, WAS OBSERVED IN THE GROUP OF EXPOSED WORKERS. OF THE TESTS USED, SCE WAS FOUND TO BE THE MOST SENSITIVE ENDPOINT

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FOR INDICATING A BIOLOGICAL RESPONSE. HOWEVER, SINCE METHODS FOR RESTRICTING THE MN ANALYSIS TO ONLY CELLS AT RISK (I.E., SECOND GENERATION INTERPHASE CELLS) WERE NOT USED, THIS STATEMENT REQUIRES VERIFICATION.

DESCRIPTORS ***** VCM;WORKERS;CARCINOGEN;TESTS;DNA;
HELD TERMS CYTOGENETIC;SISTER CHROMATIC EXCHANGE;
REVIEW YEAR 1995

Item 12

ACCESSION NUMBER 4188
FILE LOCATION GEN
DOCUMENT TYPE CORR
TITLE OR SUBJECT DOW CHEMICAL COMPANY'S COMMENTS ON THE CARB 1990 DRAFT TECHNICAL SUPPORT DOCUMENT "PROPOSED IDENTIFICATION OF VINYL CHLORIDE AS A TOXIC AIR CONTAMINANT"
AUTHOR/AFFILIATION HAWKINS NC,DOW CHEM;
ORIGIN DOW CHEM,TO BARBARA COOK CARB;
DATE 1990, JULY 3
DESCRIPTORS ***** VCM;CANCER;RISK ASSESSMENT;HUMAN;EFFECTS;
HELD TERMS ANIMAL;
REVIEW YEAR 1995

Item 13

ACCESSION NUMBER 4165
FILE LOCATION gen
DOCUMENT TYPE report
TITLE OR SUBJECT PROPOSED IDENTIFICATION OF VINYL CHLORIDE AS A TOXIC AIR CONTAMINANT: DRAFT REPORTS PART A-C
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE;
DATE 1990, MAY
DESCRIPTORS ***** VINYL CHLORIDE;AIR;DETERMINATION;EFFECTS;TOXICITY;
HELD TERMS CALIFORNIA AIR RESOURCES BOARD;
REVIEW YEAR 1995

Item 14

ACCESSION NUMBER 4103
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT BUA REPORT ON VINYL CHLORIDE
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN CMA,TO R.K.HINDERER(BFG);
DATE 1989, DECEMBER 28
ABSTRACT ECOLOGICAL ASPECTS OF THE PRODUCTION, ENTRY INTO, OCCURRENCE AND DISTRIBUTION OF VCM IN THE ENVIRONMENT.
DESCRIPTORS ***** VCM;INHALATION;ORAL;EFFECTS;TERATOGEN;
REVIEW YEAR 1995

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ACCESSION NUMBER 4102
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT RECOMMENDATION FOR THE REVISION OF THE AMBIENT AIR GUIDELINE FOR VINYL CHLORIDE
 AUTHOR/AFFILIATION PARK C, DOM CHEMICAL CO;
 ORIGIN DOM CHEMICAL CO, TO ONTARIO MINISTRY OF THE ENVIRONMENT (DR. M. LUSIS);
 DATE 1989, AUGUST 30
 ABSTRACT FOUR CONCERNS NEED TO BE ADDRESSED IF DOCUMENT IS TO BE USED AS A BASIS FOR REGULATION. THE CONCERNS ARE AS FOLLOWS: LACK OF DISCUSSION ON INCORPORATION OF LOW-DOSE PHARMACOKINETIC (PK) INFO; LACK OF DISCUSSION OF RISK ESTIMATES THAT HAVE BEEN DERIVED FROM EPIDEMIOLOGY DATA; INTERNAL INCONSISTENCIES IN THE REPORTING OF AMBIENT CONCENTRATION OF VCM IN COMPARISON TO EMISSION LEVELS AND POTENTIAL HUMAN RESULTS.

DESCRIPTORS ***** VCM; CAS.NO. 75-01-4; EPIDEMIOLOGY; RISK ASSESSMENT; AIR SAMPLING;
 REVIEW YEAR 1993

Item 16

ACCESSION NUMBER 4085
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT MORTALITY AND CANCER INCIDENCE RESULTS OF THE EUROPEAN MULTI-CENTRIC COHORT STUDY OF WORKERS EMPLOYED IN THE VINYL CHLORIDE INDUSTRY.

AUTHOR/AFFILIATION NONE, NONE;
 ORIGIN IARC;
 DATE 1989
 ABSTRACT CONTAINS INTRODUCTION AND DISCUSSION AND CONCLUSIONS.

DESCRIPTORS ***** VCM; EPIDEMIOLOGY; HUMAN; EFFECTS; CANCER; MORTALITY; ANGIOSARCOMA
 REVIEW YEAR 1998

Item 17

ACCESSION NUMBER 4070
 FILE LOCATION GEN
 DOCUMENT TYPE CORRESPONDENCE
 TITLE OR SUBJECT COMMENTS OF THE VINYL INSTITUTE ON ATSDR'S TOXICOLOGICAL PROFILE FOR VINYL CHLORIDE.

AUTHOR/AFFILIATION NONE, NONE;
 ORIGIN NONE, TO EPA;
 DATE 1988

DESCRIPTORS ***** VCM; EPA; ACUTE; TOXICITY; CHRONIC; CANCER; MUTAGENICITY; BIRTH DEFECTS
 HELD TERMS VINYL INSTITUTE;
 COMMENTS RKH(90) SEE AN#3337
 REVIEW YEAR 1998

Item 18

ACCESSION NUMBER 4069
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT HEALTH EFFECTS IN CHILDREN EXPOSED TO VINYL CHLORIDE: FINAL REPORT
 AUTHOR/AFFILIATION ZISKIND RA, NONE; SMITH D, NONE; SPIVEY G, NONE; ROGOZEN M, NONE;

BFG52884

28581008

ORIGIN NONE, FOR EPA CONTRACT NO. 68-2986;
DATE 1981, JANUARY
DESCRIPTORS ***** VCM; EFFECTS; AIR SAMPLING; OCCUPATIONAL EXPOSURE; DISEASE; REPRODUCTION;
HELD TERMS SCIENCE APPLICATIONS INC;
REVIEW YEAR 1996

Item 19

ACCESSION NUMBER 4068
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT REVIEW OF FINAL REPORT ON "HEALTH EFFECTS IN CHILDREN EXPOSED TO VINYL CHLORIDE"
AUTHOR/AFFILIATION WILSON R, HARVARD UNIV;
ORIGIN NONE, FOR EPA REFERENCE NO. SA1-068-81-569;
DATE 1981, JUNE 18
DESCRIPTORS ***** EFFECTS; VCM;
HELD TERMS SAUGUS ELEMENTARY SCHOOL;
KWIC INDEX NUMBER 05215
REVIEW YEAR 1996

Item 20

ACCESSION NUMBER 4061
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CUTANEOUS HAEMANGIOENDOTHELIOMA: A POSSIBLE LINK WITH CHRONIC EXPOSURE TO VINYL CHLORIDE.
AUTHOR/AFFILIATION DAVIES MFP, NONE; CURTIS M, NONE; HOWAT JMT, NONE;
ORIGIN BRITISH J OF INDUSTRIAL MEDICINE, VOL 47 NO.1 PP.65-67;
DATE 1990
DESCRIPTORS ***** VCM; CANCER; HUMAN; EFFECTS; PVC;
HELD TERMS HEMANGIOENDOTHELIOMA;
REVIEW YEAR 1998

Item 21

ACCESSION NUMBER 4047
FILE LOCATION GEN
DOCUMENT TYPE CORRESPONDENCE
TITLE OR SUBJECT SUMMARY AND FINAL STATUS REPORT OF CMA VINYL CHLORIDE PANEL ACTIVITIES.
AUTHOR/AFFILIATION GAFFEY MR, NONE;
ORIGIN MONSANTO, M.R. GAFFNEY TO SUSAN HOME (CMA);
DATE 1989
ABSTRACT FURTHER WORK TO RESOLVE THE POSSIBILITY OF MISDIAGNOSIS OF 37 DEATHS TO DETERMINE WHETHER THEY WERE ACTUALLY LIVER AND BILIARY CANCER OR ANGIOSARCOMA IS NOT FEASIBLE.
DESCRIPTORS ***** VCM; HUMAN; EFFECTS; CANCER; EPIDEMIOLOGY; ANGIOSARCOMA; LIVER;
HELD TERMS BILIARY;
REVIEW YEAR 1998

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ACCESSION NUMBER 4004
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CLINICAL MANIFESTATIONS IN VINYL CHLORIDE POISONING
AUTHOR/AFFILIATION SUCIU I,NONE;PRODAN L,NONE;ILEA E,NONE;PADURARU A,NONE;PASCU L,NONE;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,PP.53-69;
DATE 1970
ABSTRACT IN THE 72 CASES ADMITTED TO THE CLINIC THERE WERE 27 POSITIVE HEPATIC TESTS, WITH GOT AND GPT OVER NORMAL IN 18 CASES. BSP(BROMOSULFONPHTHALEIN) IN 22 FROM 26 CASES HAD A RETENTION OVER 5 %. THE PROTEINOGRAM MODIFICATIONS WERE OF THE ACUTE AND SUBACUTE TYPE. HEPATIC BIOPSY SHOWED CHRONIC HEPATITIS IN 3 CASES.
DESCRIPTORS ***** VCM;POISONING;OCCUPATIONAL EXPOSURE;ACUTE;SUBACUTE;HEPATITIS;
KWIC INDEX NUMBER 05120
REVIEW YEAR 1996

Item 23

ACCESSION NUMBER 4003
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TWO POSSIBLE CASES OF ANGIOSARCOMA OF THE LIVER IN A GROUP OF SWEDISH VINYL CHLORIDE-POLYVINYL CHLORIDE WORKERS
AUTHOR/AFFILIATION BYREN D,NONE;HOLMBERG B,NONE;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,PP.249-250;
DATE 1974
ABSTRACT RECENT (JULY 1974) EXAMINATION OF THE PATHOLOGIC SPECIMENS BY TUMOR SPECIALISTS HAS CONFIRMED THE DIAGNOSIS OF HEMANGIOSARCOMA OF THE LIVER IN BOTH CASES. IN CASE 2 HOWEVER, THERE IS A PROBABLE COEXISTENCE OF A HEPATOCELLULAR CANCER OF BOTH LOW AND HIGH DIFFERENTIATED TYPE.
DESCRIPTORS ***** VCM;PVC;ANGIOSARCOMA;LIVER;CANCER;OCCUPATIONAL EXPOSURE;
KWIC INDEX NUMBER 05122
REVIEW YEAR 1996

Item 24

ACCESSION NUMBER 4002
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT INTERIM RESULTS OF EXPOSURE OF RATS, HAMSTERS, AND MICE TO VINYL CHLORIDE
AUTHOR/AFFILIATION KEPLINGER ML,INDUSTRIAL BIO-TEST LABS;GOODE JW,SAME;GORDON DE,SAME;CALANDRA JC,SAME;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,PP.219-224;
DATE 1974
ABSTRACT IN THIS STUDY WHICH WAS DESIGNED TO COMPLEMENT MALTONI'S STUDIES, 100 RATS, HAMSTERS, AND MICE OF BOTH SEXES (600 TOTAL PER EXPOSURE GROUP) ARE BEING EXPOSED TO EITHER 0, 2500, 200, OR 50 PPM OF VINYL CHLORIDE VAPOR 7 H/DAY 5 DAYS/WEEK. MICE WILL BE EXPOSED FOR 9 MONTHS AND KEPT FOR AN ADDITIONAL 12 MONTHS. MORIBUND AND DEAD ANIMALS (WHEN POSSIBLE) RECEIVE GROSS AUTOPSIES AND ARE PHOTOGRAPHED. THE MAJOR ORGANS OF ALL ANIMALS ARE FIXED FOR HISTOLOGICAL EXAMINATION. IT APPEARS THAT ANGIOSARCOMAS MAY HAVE BEEN OBSERVED IN ONE MALE HAMSTER AND ONE MALE RAT EXPOSED TO 2500 PPM AND IN ONE FEMALE RAT EXPOSED TO 200 PPM. NO TUMORS HAVE BEEN OBSERVED IN RATS OR HAMSTERS EXPOSED TO 50 PPM BUT ONE MALE CONTROL WAS FOUND TO HAVE A DERMAL FIBROMA.
DESCRIPTORS ***** TUMORS;RATS;HAMSTERS;DERMAL;VCM;MICE;FIBROMA;

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Item 25

ACCESSION NUMBER 4001
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER AS THE CERTIFIED CAUSE OF DEATH 1963-73
AUTHOR/AFFILIATION BAXTER PJ,NONE;FOX AJ,NONE;
ORIGIN THE LANCET,PP.27-28;
DATE 1975, JULY 5
ABSTRACT THIS COMMUNICATION REPORTS THE RESULTS IN ENGLAND AND MALES. ALL CERTIFICATES WITH AN UNDERLYING CAUSE OF DEATH OF CERTAIN BENIGN OR MALIGNANT LIVER TUMOURS WERE SCRUTINIZED FOR A DIAGNOSIS OF ANGIOSARCOMA, MALIGNANT HAEMANGIOENDOTHELIOMA, OR KUPFFER CELL SARCOMA. THREE CASES WERE IDENTIFIED. A COMPREHENSIVE FOLLOW-UP OBTAINING A FULL OCCUPATIONAL HISTORY IN EACH OF THESE CASES IS BEING CONDUCTED.

DESCRIPTORS ***** ANGIOSARCOMA;LIVER;PVC;VCM;CANCER;OCCUPATIONAL EXPOSURE;
KWIC INDEX NUMBER 05124
REVIEW YEAR 1996

Item 26

ACCESSION NUMBER 4000
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PREDICTIVE VALUE OF CARCINOGENESIS BIOASSAYS
AUTHOR/AFFILIATION MALTONI C,NONE;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,PP.431-443;
DATE 1970, APPROX
ABSTRACT THE POTENTIAL ONCOGENIC RISK FOR MAN BY OCCUPATIONAL AND ENVIRONMENTAL AGENTS HAS SO FAR BEEN IDENTIFIED WHEN THE INCIDENCE OF A PARTICULAR TYPE OF TUMOR IN AN EXPOSED POPULATION HAS BEEN ESPECIALLY HIGH OR ON THE BASIS OF RETROSPECTIVE EPIDEMIOLOGIC STUDIES. WE MUST NOW PREDICT ONCOGENIC RISKS TO AVOID HUMAN EXPOSURE TO SUCH AGENTS. THE THREE MOST IMPORTANT CASES OF ENVIRONMENTAL AND OCCUPATIONAL TUMORS, DISCOVERED AFTER 1970, WERE INDIRECTLY OR DIRECTLY PREDICTED EXPERIMENTALLY.

DESCRIPTORS ***** BIOASSAY;OCCUPATIONAL EXPOSURE;TUMORS;EPIDEMIOLOGY;CANCER;VCM;INHALATION;RATS;MAN;MOUSE;HAMSTER;
ANGIOSARCOMA;LIVER;BRAIN;LUNG;SUBCUTANEOUS;
KWIC INDEX NUMBER 05127
REVIEW YEAR 1996

Item 27

ACCESSION NUMBER 3999
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER IN A VINYL-CHLORIDE WORKER
AUTHOR/AFFILIATION LEE FI,NONE;HARRY OS,NONE;
ORIGIN THE LANCET,PP.1316-1318;
DATE 1974, JUNE 29

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ABSTRACT A MAN AGED 71 YEARS DIED WITH ANGIOSARCOMA OF THE LIVER, AN EXTREMELY RARE TUMOUR. FOR 20 YEARS HEA HAD BEEN A PROCESS WORKER IN THE MANUFACTURE OF POLYVINYL CHLORIDE MONOMER. EVIDENCE APPEARS STRONG THAT ANGIOSARCOMA OF THE LIVER IS AN OCCUPATION TUMOUR AND THAT VINYL CHLORIDE IS THE CARCINOGEN. THERE IS NO EVIDENCE THAT THE FINISHED POLYMER(PVC) CARRIES ANY RISK.

DESCRIPTORS ***** PVC;VCM;ACROOSTEOLYSIS;ANGIOSARCOMA;LIVER;OCCUPATIONAL EXPOSURE;
 KWIC INDEX NUMBER 05128
 REVIEW YEAR 1996

Item 28

ACCESSION NUMBER 3985
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT DETERMINATION OF 7-(2-OXOETHYL)GUANINE AND N2,3-ETHENOGUANINE IN DNA HYDROLYSATES BY HPLC
 AUTHOR/AFFILIATION FEDTKE N,CIT;WALKER VE,SAME;SMENBERG JA,SAME;
 ORIGIN ARCH TOXICOL,SUPPL 13 PP.214-218;
 DATE 1989
 ABSTRACT VINYL CHLORIDE(VC) IS METABOLIZED OXIDATIVELY TO 2-CHLOROETHYLENE OXIDE THAT CAN REARRANGE TO 2-CHLOROACETALDEHYDE. 2-CHLOROETHYLENE OXIDE IS RESPONSIBLE FOR THE FORMATION OF THE MAJOR DNA ADDUCT 7-(2-OXOETHYL)GUANINE (7-OEG) FORMED AFTER IN VIVO EXPOSURE OF EXPERIMENTAL ANIMALS TO VC (LAIB 1986). WHILE 7-OEG DID NOT CAUSE MISPAIRING IN VITRO (BARBIN ET AL 1985), ANOTHER ADDUCT, N2,3-ETHENOGUANINE(EG), FOUND IN DNA OF RAT LIVER AFTER VC EXPOSURE (LAIB ET AL 1985), WAS SHOWN TO BE HIGHLY EFFICIENT CAUSING GC->AT TRANSITIONS (SINGER ET AL 1987). UNFORTUNATELY, THE ANALYTICAL EVIDENCE FOR THE IN VIVO FORMATION OF EG PRESENTED BY LAIB ET AL (1985) WAS EQUIVOCAL. HENCE, THE FIRST GOAL OF THIS STUDY WAS TO PROVE OR DISPROVE THE IN VIVO FORMATION OF EG. THE SECOND GOAL WAS TO DETERMINE THE SENSITIVITY NEEDED TO STUDY THE DOSE-RESPONSE RELATIONSHIP BETWEEN VC EXPOSURE AND TARGET TISSUE DOSE MEASURED AS DNA ADDUCTS. NEW HPLC METHODS FOR QUANTIFYING 7-OEG AND EG BY FLUORESCENCE SPECTOPHOTOMETRY WERE DEVELOPED. DETECTION LIMITS WERE 15 AND 1.4 PMOL PER UMOL GUANINE FOR 7-OEG AND EG, RESPECTIVELY. IN THE CASE OF EG, ADDITIONAL QUALITATIVE EVIDENCE FOR ITS PRESENCE WAS OBTAINED BY A HIGHLY SPECIFIC GC-MS METHOD.

DESCRIPTORS ***** VCM;DNA;METABOLISM;
 HELD TERMS DNA ADDUCTS;DNA BINDING;
 REVIEW YEAR 1995

Item 29

ACCESSION NUMBER 3984
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT COMPARISON OF POTENCY OF HUMAN CARCINOGENS: VINYL CHLORIDE, CHLOROMETHYLMETHYL ETHER AND BIS(CHLOROMETHYL)ETHER
 AUTHOR/AFFILIATION VAN DUUREN BL,NONE;
 ORIGIN ENVIRONMENTAL RESEARCH,VOL 49 PP.143-151;
 DATE 1989
 ABSTRACT ON THE BASIS OF THESE NUMBERS OF CANCER DEATHS, AND THE LEVELS AND DURATIONS OF EXPOSURE, IT IS CONCLUDED THAT VC IS A WEAK HUMAN CARCINOGEN COMPARED TO CME-BCME.

DESCRIPTORS ***** VCM;CANCER;HUMAN;EFFECTS;BCME;
 HELD TERMS CHLOROMETHYLMETHYL ETHER;CME;
 REVIEW YEAR 1999

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Item 30

ACCESSION NUMBER 3964
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT VINYL CHLORIDE FORMATION FROM THE THERMAL DEGRADATION OF POLY(VINYL CHLORIDE)
 AUTHOR/AFFILIATION WAKEMAN IB, TENNECO CHEMICALS; JOHNSON HR, SAME;
 ORIGIN NONE, VOL 2 NO.3 PP.200-203;
 DATE 1980, SEPTEMBER
 ABSTRACT THE VOLATILE PRODUCTS FROM THE THERMAL DEGRADATION OF POLY(VINYL CHLORIDE)(PVC) RESINS AND COMPOUNDS ARE SHOWN TO CONTAIN TRACE AMOUNTS OF VINYL CHLORIDE.
 DESCRIPTORS ***** PVC;VCM;COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;
 HELD TERMS J OF VINYL TECHNOLOGY;
 KNIC INDEX NUMBER 04819
 REVIEW YEAR 1992

Item 31

ACCESSION NUMBER 3941
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT COMBUSTION PRODUCTS FROM VINYL CHLORIDE MONOMER
 AUTHOR/AFFILIATION O'HARA MM, BFG; CRIDER LB, SAME; DANIEL RL, DOW CHEM;
 ORIGIN AIHA, VOL 32 PP.153-156
 DATE 1971, MARCH
 ABSTRACT BY MEANS OF A VARIETY OF ANALYTICAL TECHNIQUES, THE COMBUSTION PROFILE OF VINYL CHLORIDE MONOMER(VCM) HAS BEEN DETERMINED. THIS PROFILE INCLUDES FLAME TEMPERATURES, SOOT CONTENT, AND A COMBUSTION GAS ANALYSIS. DEPENDING ON THE AMOUNT OF VCM-AIR PREMIXING PRIOR TO COMBUSTION, THE TEMPERATURE OF A VCM FLAME RANGES FROM 950 DEG TO 1466 DEG C. SIMILARLY, THE SOOT OR UNBURNED CARBON CONTENT OF A VCM FLAME VARIES FROM 3 TO 6 WEIGHT PERCENT. AN ANALYSIS OF THE COMBUSTION GASES FROM VCM REVEAL THE FOLLOWING COMPOSITION: HCL 27,000 PPM; CO2 58,100 PPM; CO 9500 PPM; PHOSGENE 40 PPM; AND VCM TRACE. FROM A HAZARD STANDPOINT, THE GROSS QUANTITY OF HYDROGEN CHLORIDE IS THE MAIN SOURCE OF DANGER IN A VCM FIRE.
 DESCRIPTORS ***** VCM;COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;
 KNIC INDEX NUMBER 00950
 REVIEW YEAR 1992

Item 32

ACCESSION NUMBER 3924
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT COHORT AND CASE-CONTROL ANALYSES OF WORKERS EXPOSED TO VINYL CHLORIDE: AN UPDATE
 AUTHOR/AFFILIATION WU H, NONE; STEENLAND K, NONE; BROWN D, NONE; WELLS V, NONE; JONES J, NONE; SCHULTE P, NONE; HALPERIN M, NONE;
 ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 31 NO.6 PP.518-523;
 DATE 1989, JUNE
 ABSTRACT THE ONLY SIGNIFICANT ASSOCIATION BETWEEN DISEASE RISK AND CUMULATIVE DOSE WAS FOR LIVER CANCER AND CUMULATIVE DOSE OF VINYL CHLORIDE MONOMER. FURTHER DIVISION OF THE LIVER CANCERS INTO ANGIOSARCOMA (N=12) AND OTHER LIVER CANCERS (N=7), BASED ON REVIEW OF DEATH CERTIFICATES AND

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DESCRIPTORS ***** MEDICAL RECORDS , SHOWED THAT THE DOSE RESPONSE EXISTED ONLY FOR ANGIOSARCOMAS.
 REVIEW YEAR 1997

Item 33

ACCESSION NUMBER 3921
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT INCREASED ALKYLATION OF LIVER DNA AND CELL TURNOVER IN YOUNG VERSUS OLD RATS EXPOSED TO VINYL CHLORIDE CORRELATES WITH CANCER SUSCEPTIBILITY
 AUTHOR/AFFILIATION LAIB RJ,NONE;BOLT HM,NONE;CARTIER R,IARC;BARTSCH H,IARC;
 ORIGIN TOXICOLOGY LETTERS,VOL 45 PP.231-239;
 DATE 1989
 DESCRIPTORS ***** VCM;CANCER;DNA;TRANSPLACENTAL CARCINOGEN;LIVER;EFFECTS;
 HELD TERMS DNA ALKYLATION;
 REVIEW YEAR 1997

Item 34

ACCESSION NUMBER 3919
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT 1,N6-ETHENO-2'-DEOXYADENOSINE AND 3,N4-ETHENO-2'-DEOXYCYTIDINE DETECTED BY MONOCLONAL ANTIBODIES IN LUNG AND LIVER DNA OF RATS EXPOSED TO VINYL CHLORIDE.
 AUTHOR/AFFILIATION EBERLE G,NONE;BARBIN A,NONE;LAIB RJ,NONE;CIROUSSEL F,NONE;THOMALE J,NONE;BARTSCH H,NONE;RAJEMSKY MF,NONE;
 ORIGIN NONE,VOL 10 NO.1 PP.209-212;
 DATE 1989
 DESCRIPTORS ***** VCM;DNA;CANCER;MUTAGENICITY;
 HELD TERMS MONOCLONAL ANTIBODIES;DNA ADDUCTS;CARCINOGENESIS;
 REVIEW YEAR 1997

Item 35

ACCESSION NUMBER 3915
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT VCM TOXICITY SUMMARY.
 AUTHOR/AFFILIATION HINDERER RK,BFG;
 ORIGIN BFG;
 DATE 1988
 ABSTRACT THIS SUMMARY WAS PREPARED TO ADDRESS IMMUNOTOXICITY ALLEGATIONS.
 DESCRIPTORS ***** VCM;CANCER;TOXICITY;BIRTH DEFECTS;LIVER;EFFECTS;ANGIOSARCOMA;
 HELD TERMS IMMUNOTOXICITY;ACRO-OSTEOLYSIS;
 REVIEW YEAR 1997

Item 36

ACCESSION NUMBER 3903

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FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT THE MUTAGENICITY AND CARCINOGENICITY OF VINYL CHLORIDE: A HISTORICAL REVIEW AND ASSESSMENT.
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE,TECHNICAL REPORT NO.31;
 DATE 1988
 DESCRIPTORS ***** VCM;MUTAGENICITY;CANCER
 HELD TERMS ECETOC;
 REVIEW YEAR 1997

Item 37

ACCESSION NUMBER 3882
 FILE LOCATION GEN
 DOCUMENT TYPE PROCEEDINGS
 TITLE OR SUBJECT CONFERENCE TO REEVALUATE THE TOXICITY OF VINYL CHLORIDE, POLYVINYL CHLORIDE AND STRUCTURAL ANALOGUES
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NIH,WITH NIOSH/NIHNS AS COSPONSORS;
 DATE 1980, MARCH 20
 DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;CHLORINATED HYDROCARBONS;MICE;RATS;
 KWIC INDEX NUMBER 04763
 REVIEW YEAR 1991

Item 38

ACCESSION NUMBER 3880
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT THE MUTAGENICITY OF VINYL CHLORIDE AFTER METABOLIC ACTIVATION
 AUTHOR/AFFILIATION RANNUG U,NONE;JOHANSSON A,NONE;RAMEL C,NONE;WACHTMEISTER CA,NONE;
 ORIGIN AMBIO,VOL 3 NO.5 PP.194-197;
 DATE 1974
 DESCRIPTORS ***** VCM;METABOLISM;MUTAGENICITY;IN VITRO;
 HELD TERMS ACTIVATION
 KWIC INDEX NUMBER 01052
 REVIEW YEAR 1991

Item 39

ACCESSION NUMBER 3875
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT CONGENITAL CENTRAL NERVOUS SYSTEM MALFORMATIONS, KANAWHA COUNTY, WEST VIRGINIA
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN CDC,EPI-76-60-2;
 DATE 1976, JULY 26
 ABSTRACT DATA AVAILABLE THROUGH THE BIRTH DEFECTS MONITORING PROGRAM (BDMP) REVEALED THAT FROM 1970 THROUGH 1974, KANAWHA COUNTY, WEST VIRGINIA-- WHERE 1 OF THE 40 POLYVINYL CHLORIDE PRODUCTION PLANTS IN THE UNITED STATES IS LOCATED--HAD RATES OF CONGENITAL CENTRAL NERVOUS SYSTEM DEFECTS

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DESCRIPTORS ***** THAT WERE SIGNIFICANTLY HIGHER THAN NATIONAL BDMP RATES FOR THOSE YEARS.
 VCM;BIRTH DEFECTS;CNS;TERATOGENICITY;HUMAN;EFFECTS;EPIDEMIOLOGY;
 KWIC INDEX NUMBER 02556
 REVIEW YEAR 1991

Item 40

ACCESSION NUMBER 3873
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT THE EFFECT OF MATERNALLY INHALED VINYL CHLORIDE ON EMBRYONAL, FETAL AND POSTNATAL DEVELOPMENT IN RATS
 AUTHOR/AFFILIATION MIRKOVA E,NONE;MICHAILOVA A,NONE;HINKOVA L,NONE;NASKO M,NONE;
 ORIGIN NONE;
 DATE 1970
 ABSTRACT THE RESULTS SHOWED THAT VINYL CHLORIDE CAUSED AN INCREASED FETAL MORTALITY AND FREQUENCY OF HAEMORRHAGES AND A DECREASED FETAL WEIGHT. VINYL CHLORIDE WAS TERATOGENIC AT THE CONCENTRATION USED. TERATOGENIC EFFECTS CONSISTED OF EXTERNAL (ENCEPHALOCELE), INTERNAL SOFT TISSUE ABNORMALITIES (HYDROCEPHALUS, BRAIN HAEMORRHAGES) AND SKELETAL MALFORMATIONS (DOUBLES OSSIFICATION CENTRES IN THE STERNUM). VINYL CHLORIDE PRODUCED ALSO BIOCHEMICAL AND FUNCTIONAL DISTURBANCES IN THE HOMEOSTASIS OF THE FETAL ORGANISM AND THE OFFSPRING. A DECREASED ACTIVITY OF THE DEHYDROGENASES--G6PDH,SUCDH,I-CDH,MDH,LDH AND AN INCREASED ACTIVITY OF GAMA-GTP WAS ESTABLISHED IN THE FETAL LIVER. VINYL CHLORIDE CAUSED AN INCREASED G6PDH AND I-CDH ACTIVITY IN THE FETAL BRAIN. THE INDEX OF FERTILITY AND GESTATION IN THE PROGENY WAS DECREASED. THE EXCRETORY, DETOXIFYING AND ENZYMIC FUNCTIONS OF THE LIVER, AS WELL AS THE NERVOUS SYSTEM WERE INJURED IN THE THREE GENERATIONS OF THE OFFSPRING.

DESCRIPTORS ***** VCM;TERATOGENICITY;FETAL TOXICITY;INHALATION;EMBRYOTOXICITY;
 KWIC INDEX NUMBER 04056
 REVIEW YEAR 1991

Item 41

ACCESSION NUMBER 3870
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT THE DYNAMICS OF VINYL CHLORIDE INDUCED ACROOSTEOLYSIS
 AUTHOR/AFFILIATION MYSLAK Z,NONE;GLUSZCZ M,NONE;
 ORIGIN UNKNOWN;
 DATE 1977
 ABSTRACT THESE OBSERVATIONS SHOW THAT IN VC-INDUCED OSTEOLYSIS NO REAL LESION OF BONE STRUCTURE OCCURS, AND THAT THE ACROOSTEOLYSIS IS REVERSIBLE.

DESCRIPTORS ***** VCM;ACROOSTEOLYSIS;HUMAN;EFFECTS;
 HELD TERMS INSTITUTE OF OCCUPATIONAL MEDICINE;
 KWIC INDEX NUMBER 04057
 REVIEW YEAR 1990

Item 42

ACCESSION NUMBER 3869
 FILE LOCATION GEN

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DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HISTOLOGICAL AND ELECTRON MICROSCOPE STUDIES UPON THE LONG-TERM TOXICITY OF VINYL CHLORIDE IN RATS, WITH SPECIAL REFERENCE TO LIVER CHANGES
AUTHOR/AFFILIATION STETKIEWICZ J,NONE;KOLAKOWSKI J,NONE;ZDRAJKOWSKA I,NONE;SZENDZIKOWSKI S,NONE;
ORIGIN UNKNOWN;
DATE 1977
DESCRIPTORS ***** VCM;INHALATION;RATS;CHRONIC;EFFECTS;TOXICITY;
HELD TERMS INSTITUTE OF OCCUPATIONAL MEDICINE(POLAND);
KWIC INDEX NUMBER 04059
REVIEW YEAR 1990

Item 43

ACCESSION NUMBER 3868
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT METABOLISM OF VINYL CHLORIDE MONOMER IN THE LIVER OF RATS
AUTHOR/AFFILIATION HISNIEWSKA-KNYPL JM,NONE;TARKOWSKI S,NONE;DRAMINSKI W,NONE;
ORIGIN UNKNOWN;
DATE 1977
DESCRIPTORS ***** VCM;METABOLISM;RATS;LIVER;INHALATION;
HELD TERMS INSTITUTE OF OCCUPATIONAL MEDICINE(POLAND);
KWIC INDEX NUMBER 04060
REVIEW YEAR 1990

Item 44

ACCESSION NUMBER 3867
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT AMBIENT WATER QUALITY CRITERIA FOR VINYL CHLORIDE
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN EPA,P881-117889;
DATE 1980, OCTOBER
ABSTRACT THE LEVELS WHICH MAY RESULT IN INCREMENTAL INCREASE OF CANCER RISK OVER THE LIFETIME ARE ESTIMATED AT 10-5,10-6, AND 10-7. THE CORRESPONDING RECOMMENDED CRITERIA ARE 20 UG/L, 2.0 UG/L, AND 0.2 UG/L, RESPECTIVELY. IF THE ABOVE ESTIMATES ARE MADE FOR CONSUMPTION OF AQUATIC ORGANISMS ONLY, EXCLUDING CONSUMPTION OF WATER, THE LEVELS ARE 5,246 UG/L, 525 UG/L, AND 52.5 UG/L, RESPECTIVELY.
DESCRIPTORS ***** VCM;WATER;
KWIC INDEX NUMBER 04085
REVIEW YEAR 1990

Item 45

ACCESSION NUMBER 3863
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT REVIEW AND AUDIT OF IBT NO. 663-03222, CHRONIC VAPOR INHALATION TOXICITY STUDY WITH VINYL CHLORIDE (ETHYLENE DERIVED) IN ALBINO RATS, ALBINO MICE AND GOLDEN HAMSTERS FOR THE MANUFACTURING

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CHEMISTS ASSOCIATION
AUTHOR/AFFILIATION BOB WEST,NONE;
ORIGIN NONE,FOR IBT;
DATE 1980, APRIL 14
DESCRIPTORS ***** VCM;INHALATION;RATS;MICE;HAMSTERS;CARCINOGENICITY;CHRONIC;TOXICITY;
HELD TERMS AUDIT;BOB WEST ASSOCIATES;
KWIC INDEX NUMBER 04593
REVIEW YEAR 1990

Item 46

ACCESSION NUMBER 3862
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT EPIDEMIOLOGY STUDY ON VINYL CHLORIDE WORKERS AT SHAMINIGAN PLANT: FRENCH VERSION
AUTHOR/AFFILIATION THERIAULT G,NONE;ALLARD P,NONE;
ORIGIN NONE;
DATE 1980
DESCRIPTORS ***** VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;
KWIC INDEX NUMBER 04749
REVIEW YEAR 1990

Item 47

ACCESSION NUMBER 3860
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT PATHOLOGY REPORT ON THE BRAINS FROM MICE,HAMSTERS, AND RATS EXPOSED TO VINYL CHLORIDE IN IBT
STUDY 663-03222
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE;
DATE 1980, MAY 14
DESCRIPTORS ***** VCM;BRAIN;MICE;RATS;HAMSTERS;INHALATION;CARCINOGENICITY;CHRONIC;TOXICITY;
HELD TERMS EXPERIMENTAL PATHOLOGY LABORATORIES;AUDIT;
KWIC INDEX NUMBER 04667
REVIEW YEAR 1990

Item 48

ACCESSION NUMBER 3859
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT VINYL CHLORIDE CARCINOGENICITY BIOASSAYS (BT PROJECT) AS AN EXPERIMENTAL MODEL FOR RISK
IDENTIFICATION AND ASSESSMENT IN ENVIRONMENTAL AND OCCUPATIONAL CARCINOGENESIS
AUTHOR/AFFILIATION MALTONI C,NONE;LEFEMINE G,NONE;CILIBERTI A,NONE; COTTI G,NONE;CARRETTI D,NONE;
ORIGIN NONE,MEETING HELD AT INSTITUT CURIE (PARIS,FRANCE);
DATE 1979, NOVEMBER 10
ABSTRACT ANGIOSARCOMA (1 AT 10 PPM INHALATION AND 1 AT 0.3 MG/HG ORAL AND MORE AT HIGHER DOSES),
EXTRA-HEPATIC ANGIOSARCOMAS, HEPATOMA, ZYMBAL GLAND CARCINOMA, NEPHROBLASTOMAS AND NEUROBLASTOMAS
FOUND IN RODENTS EXPOSED TO VCM.

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DESCRIPTORS ***** VCM;CARCINOGENICITY;ANGIOSARCOMA;ZYMBAL GLAND;RATS;MICE;HAMSTERS;
HELD TERMS HEPATOMA;NEPHROBLASTOMA;NEUROBLASTOMA;RODENTS;
KWIC INDEX NUMBER 04712
REVIEW YEAR 1990

Item 49

ACCESSION NUMBER 3858
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT A COMMUNITY VINYL CHLORIDE MORTALITY ANALYSIS STUDY
AUTHOR/AFFILIATION ITURRA H, LAVAL UNIV;
ORIGIN NONE, SPECIAL MTG ON TOXIC SUBSTANCES IN THE AIR ENVIRONMENT;
DATE 1976
ABSTRACT STUDY COMPARES THE MORTALITY PROFILE OF PEOPLE FROM A COMMUNITY EXPOSED TO VINYL CHLORIDE INTO ITS ENVIRONMENT WITH THE MORTALITY PROFILE OF A CONTROL COMMUNITY MATCHED FOR DEMOGRAPHY AND INDUSTRIALIZATION. THE TWO POPULATIONS DO NOT DIFFER BUT FOR MALES AGED BETWEEN 20 AND 64. IN THIS LATTER GROUP, FIVE CANCER TYPES ARE MORE PREVALENT IN SHAMINIGAN THAN IN DRUMMONDVILLE. THEY ARE CANCERS OF THE LIVER, THE PANCREAS, THE BRAIN, THE LUNG AND THE BLADDER. MORE STUDIES ARE NEEDED TO ASCERTAIN THE ORIGIN OF THESE CANCERS WHETHER IT IS THROUGH EXPOSURE AT WORK OR IN THE ENVIRONMENT.

DESCRIPTORS ***** VCM;EPIDEMIOLOGY;CANCER;LIVER;BRAIN;LUNG;PANCREAS;BLADDER;
HELD TERMS APCA;
KWIC INDEX NUMBER 04756
REVIEW YEAR 1990

Item 50

ACCESSION NUMBER 3857
FILE LOCATION GEN
DOCUMENT TYPE PROCEEDINGS
TITLE OR SUBJECT AN EPIDEMIOLOGY DESCRIPTION OF 10 CANADIAN CASES OF ANGIOSARCOMA OF THE LIVER
AUTHOR/AFFILIATION DELORME F, NONE;
ORIGIN NONE, SPECIAL MEETING ON TOXIC SUBSTANCES IN THE AIR ENVIRONMENT;
DATE 1976
ABSTRACT TEN CASES OF ANGIOSARCOMA OF THE LIVER WERE DIAGNOSED AMONG WORKERS OF A VINYL CHLORIDE POLYMERIZING PLANT IN SHAMINIGAN, QUEBEC, SINCE 1974. AN EPIDEMIOLOGICAL QUESTIONNAIRE WAS COMPLETED BY MEETING WITH RELATIVES AND FRIENDS OF THE CASES. THE PRESENT PAPER DESCRIBES THE OCCUPATIONAL HISTORY ALONG WITH THE ALCOHOL CONSUMPTION, THE SMOKING HABITS, THE PASSED DISEASES AND OTHER RELEVANT INFORMATIONS OF THESE INDIVIDUALS. FURTHERMORE, IT STUDIES THE RELATIONSHIP BETWEEN THE TIME OF FIRST EXPOSURE, THE DURATION OF EXPOSURE, THE MORPHOLOGICAL ASPECT OF THE HEPATIC LESIONS AND A BRIEF EXPOSITION OF THE PATHOGENESIS OF THE DISEASE.

DESCRIPTORS ***** ANGIOSARCOMA;VCM;HUMAN;EFFECTS;EPIDEMIOLOGY;
HELD TERMS APCA;
KWIC INDEX NUMBER 04758
REVIEW YEAR 1990

Item 51

ACCESSION NUMBER 3856

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FILE LOCATION GEN
 DOCUMENT TYPE PAPER
 TITLE OR SUBJECT HEALTH EFFECTS OF EXPOSURE TO VINYL CHLORIDE IN A CANADIAN COMMUNITY
 AUTHOR/AFFILIATION THERIAULT G, LAVAL UNIV;
 ORIGIN NONE, SPECIAL MEETING ON TOXIC SUBSTANCES IN THE AIR ENVIRONMENT;
 DATE 1976
 ABSTRACT THE PURPOSE OF THE PAPER IS TO DESCRIBE BRIEFLY THE RESEARCHES THAT ARE GOING ON AT LAVAL UNIVERSITY ON THE HEALTH EFFECTS OF EXPOSURE TO VINYL CHLORIDE IN A CANADIAN COMMUNITY (SHAWINIGAN). THE THREE MAIN STUDIES INCLUDE A DESCRIPTION OF THE 10 CASES OF ANGIOSARCOMA OF THE LIVER FOUND AMONG VC WORKERS IN CANADA, A MORTALITY STUDY OF THE COMMUNITY EXPOSED TO VC AND A PROPOSAL FOR A BIRTH DEFECTS STUDY IN THE CONCERNED COMMUNITY.

DESCRIPTORS ***** VCM; ANGIOSARCOMA; BIRTH DEFECTS; HUMAN; EFFECTS;
 HELD TERMS APCA;
 KWIC INDEX NUMBER 04757
 REVIEW YEAR 1990

Item 52

ACCESSION NUMBER 3855
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT MUTAGENICITY OF WASTE PRODUCTS FROM VINYL CHLORIDE INDUSTRIES
 AUTHOR/AFFILIATION RAMEL C, UNIV OF STOCKHOLM; RANNUG U, SAME;
 ORIGIN J OF TOXICOLOGY AND ENVIRONMENTAL HEALTH, VOL 2 PP.1019-1029;
 DATE 1977
 ABSTRACT THE RESULTS SHOWED THAT EDC-TAR CONTAINED DIRECT AS WELL AS INDIRECT MUTAGENIC CONSTITUENTS.
 DESCRIPTORS ***** VCM; MUTAGENICITY; IN VITRO; EDC; TAR;
 KWIC INDEX NUMBER 04092
 REVIEW YEAR 1990

Item 53

ACCESSION NUMBER 3846
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT REASSESSMENT OF LIVER CANCER AMONG VINYL CHLORIDE WORKERS
 AUTHOR/AFFILIATION NONE, NONE;
 ORIGIN NONE, FOR CMA;
 DATE 1989, FEBRUARY
 ABSTRACT ATTEMPTED FOLLOW-UP OF 37 LIVER CANCER CASES IDENTIFIED IN EARLIER REPORT. INCOMPLETE DATA RECOVERY, BUT INCORRECT DIAGNOSIS IS INDICATED IN SOME CASES WITH A REDUCTION BUT NOT ELIMINATION OF STATISTICALLY SIGNIFICANT EXCESS.

DESCRIPTORS ***** VCM; LIVER; CANCER;
 HELD TERMS ENSR HEALTH SCIENCES;
 REVIEW YEAR 1992

Item 54

ACCESSION NUMBER 3833
 FILE LOCATION GEN

BFG52896

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Order number 911001-135640-MIZ -001-007

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DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT TOXICITY OF VINYL CHLORIDE AND POLY(VINYL CHLORIDE): A CRITICAL REVIEW
 AUTHOR/AFFILIATION WAGONER JK,NONE;
 ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 52 PP.61-66;
 DATE 1983
 ABSTRACT THE TARGET ORGANS FOR VC NOW CLEARLY INCLUDE THE LIVER,BRAIN AND THE LUNG, AND PROBABLY THE LYMPHOHEMATOPOIETIC SYSTEM.THE EVIDENCE FOR A CARCINOGENIC RISK HAS BEEN EXTENDED TO JOBS ASSOCIATED WITH POLY(VINYL CHLORIDE) EXPOSURE. CASES OF LIVER ANGIOSARCOMA HAVE BEEN REPORTED AMONG INDIVIDUALS EMPLOYED IN PVC FABRICATION FACILITIES AND AN EPIDEMIOLOGICAL STUDY HAS DEMONSTRATED A SIGNIFICANT ASSOCIATION BETWEEN EXPOSURE TO PVC DUST AND THE RISK OF LUNG CANCER MORTALITY. CASES OF ANGIOSARCOMA OF THE LIVER ALSO HAVE BEEN REPORTED AMONG INDIVIDUALS LIVING IN NEAR PROXIMITY TO VINYL CHLORIDE-POLY(VINYL CHLORIDE)PLANTS. AN ASSOCIATION BETWEEN PVC DUST AND PNEUMOCONIOSIS ALSO HAS BEEN DEMONSTRATED. ON THE BASIS OF FINDINGS, PRUDENT CONTROL OF PVC DUST IN THE INDUSTRIAL SETTING IS INDICATED.

DESCRIPTORS ***** VINYL CHLORIDE;PVC DUST;LUNGS;CANCER;AOL;
 HELD TERMS PNEUMOCONIOSIS;
 REVIEW YEAR 1996

Item 55

ACCESSION NUMBER 3797
 FILE LOCATION gen
 DOCUMENT TYPE CORRESPONDENCE
 TITLE OR SUBJECT report on the 1986 industrial direct discharges in ONTARIO: RESPONSE TO COMMENTS BY RK HINDERER.
 AUTHOR/AFFILIATION Ian q,none;
 ORIGIN NONE,TD BFG;
 DATE 1988
 DESCRIPTORS ***** AQUATIC TOXICITY;MUTAGENICITY;EFFECTS;VCM;
 HELD TERMS BROCK UNIV; AQUATIC;TOXICITY;
 REVIEW YEAR 1990

Item 56

ACCESSION NUMBER 3763
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT ACROOSTEOLYSIS AND ASSOCIATED CUTANEOUS LESIONS IN TWO WORKERS INCURRED IN THE CLEANING OF AUTOCLAVES.
 AUTHOR/AFFILIATION CORDIER JH,NONE;FIEVEZ C,NONE;LEFEVRE MJ,NONE;SEVRIN A,NONE;
 ORIGIN NONE,VOL.4 NO.1;
 DATE 1966
 ABSTRACT TRANSLATION
 DESCRIPTORS ***** ACROOSTEOLYSIS;VCM
 HELD TERMS CAHIERS DE MEDECINE DU TRAVAIL;
 KWIC INDEX NUMBER 04791
 REVIEW YEAR 1996

Item 57

ACCESSION NUMBER 3645

BFG52897

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FILE LOCATION	GEN
DOCUMENT TYPE	PUBLICATION
TITLE OR SUBJECT	DISTRIBUTION OF PRIMARY CANCERS OF THE LIVER IN THE PROVINCE OF QUEBEC
AUTHOR/AFFILIATION	JACOB PJ,NONE;THERIAULT GP,NONE;
ORIGIN	NONE,VOL 112 PP.305-307;
DATE	1975
DESCRIPTORS *****	VCM;HUMAN;EFFECTS;CANCER;LIVER;ANGIOSARCOMA;
HELD TERMS	CMA J;CANADIAN MEDICAL ASSOCIATION J;
KMIC INDEX NUMBER	01650
REVIEW YEAR	1996

Item 58

ACCESSION NUMBER	3561
FILE LOCATION	gen
DOCUMENT TYPE	report
TITLE OR SUBJECT	cohort and case-control analyses of workers exposed to vinyl chloride - an update.
AUTHOR/AFFILIATION	HU W,NONE;STEENLAND K,NIOSH;BROWN D,NIOSH;WELLS V,NIOSH;JONES J,NIOSH;SCHULTE P,NIOSH;HALPERIN M,NIOSH;
ORIGIN	niosh, to bfg;
DATE	1988
ABSTRACT	there was an association between vcm and liver cancer. however, there was no relationship between vcm or pvc and brain or lung cancer.
DESCRIPTORS *****	cancer;liver;brain;lung;angiosarcoma;vcm;pvc;human;effects;epidemiology
REVIEW YEAR	1990

Item 59

ACCESSION NUMBER	3478
FILE LOCATION	GEN
DOCUMENT TYPE	CORRESPONDENCE
TITLE OR SUBJECT	VCM FOUND IN TOBACCO SMOKE
AUTHOR/AFFILIATION	ROEMER CN,NONE;
ORIGIN	KELLER AND HECKMAN;
DATE	1988
ABSTRACT	IARC VOL 38 LISTS VCM IN TOBACCO SMOKE.
DESCRIPTORS *****	VCM;TOBACCO SMOKE;COMBUSTION;CANCER;TOXICITY;
REVIEW YEAR	1996

Item 60

ACCESSION NUMBER	3376
FILE LOCATION	gen
DOCUMENT TYPE	publication
TITLE OR SUBJECT	update to vinyl chloride mortality study.
AUTHOR/AFFILIATION	DAHAR WS,DON CHEM;BOND GG,DON CHEM;MCLAREN EA,SAME;SABEL FL,SAME;LIPPS TE,SAME;COOKRR,SAME;
ORIGIN	journal of occupational medicine, vol.30(8) pp.648-9;
DATE	1988
DESCRIPTORS *****	vcm;human;effects;epidemiology;cancer;chronic
REVIEW YEAR	1996

BFG52898

22521022

Item 61

ACCESSION NUMBER 3375
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TOXICITY OF VINYL CHLORIDE-POLYVINYL CHLORIDE:A COMPILATION OF PAPERS PRESENTED AT A NYAS WORKSHOP
AUTHOR/AFFILIATION VELTMAN G,NONE;LANGE CE,NONE;LILIS R,NONE;MILLER A,NONE;SUCIU I,NONE;BERK PD,NONE;SAKABE H,NONE;MYATT RH,NONE;CREECH JL,NONE;MARSTELLER HJ,NONE;HEFNER RE,NONE;OSTER G,NONE;JAEGER RJ,NONE;WAGNER ER,NONE;PRODAN L,NONE;VOLKHEIMER G,NONE;POPPER H,NONE;MALTONI C,NONE;KEPLINGER ML,NONE;NICHOLSON MJ,NONE;HEATH CH,NONE;SCHNEIDERMAN MA,NONE;BYREN D,NONE;MANCUSO TF,NONE;VAN DUUREN BL,NONE;THOMAS LV,NONE;GAY BW,NONE;SCHWEITZER GE,NONE;CORN M,NONE;ROME VK,NONE;PERKEL G,NONE;BELICZKY L,NONE;JOHNSON CA,NONE;DOLL R,NONE;HEIMANN H,NONE;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,VOL 246 PAPERS PRESENTED AT A WORKSHOP SPONSORED BY NYAS,ACS,NIEHS,NIH,SOCIETY FOR OCCUPATIONAL & HEALTH(MAY 10-11,1974)
DATE 1975, JANUARY 31
ABSTRACT VOLUME CONTAINS FOUR PARTS: TOXICOLOGICAL INVESTIGATIONS OF VINYL CHLORIDE-POLYVINYL CHLORIDE VIA CLINICAL STUDIES, EXPERIMENTAL STUDIES,PATHOLOGY;CARCINOGENESIS ASSOCIATED WITH VINYL CHLORIDE VIA EXPERIMENTAL STUDIES, EPIDEMIOLOGICAL STUDIES,PATHOLOGY;ENVIRONMENTAL CONSIDERATIONS; CONTROL AND MANAGEMENT.
DESCRIPTORS ***** EPIDEMIOLOGY;VINYL CHLORIDE;VCM;PVC;TOXICITY;CARCINOGENICITY;MORTALITY;
REVIEW YEAR 1996

Item 62

ACCESSION NUMBER 3374
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CONFERENCE TO REEVALUATE THE TOXICITY OF VINYL CHLORIDE MONOMER,POLY(VINYL CHLORIDE) AND STRUCTURAL ANALOGS: ENVIRONMENTAL HEALTH PERSPECTIVES (EHP) COMPILATION OF PAPERS PRESENTED ON VC, PVC AND STRUCTURAL ANALOGS
AUTHOR/AFFILIATION MAXWEILER PJ,NONE;MALTONI C,NONE;SUZUKI Y,NONE;GROTH DH,NONE;RADIKE MJ,NONE;HEHIR RM,NONE;WAGNER JC,NONE;INFANTE PF,NONE;MEBER H,NONE;COOPER MC,NONE;FALK H,NONE;BAXTER PJ,NONE;TAMBURO CH,NONE;WHEELER RN,NONE;JONES JH,NONE;CHIAZZE L,NONE;MOLINA G,NONE;MASTRANGELO G,NONE;LILIS R,NONE;JOHN JA,NONE;RICE JM,NONE;FABRICANT JD,NONE;HATCH M,NONE;DIMMICK WF,NONE;VIANNA NJ,NONE;CHU KC,NONE;APFELDORF R,NONE;HATTIS D,NONE;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 41 CONTAINS PAPERS FROM NIH CONFERENCE MARCH 20-21(1980);
DATE 1981, OCTOBER
ABSTRACT CONTAINS MOST EXTENSIVE ANIMAL RESEARCH ON THE CARCINOGENICITY OF VCM EVER PUBLISHED. DOSE-RESPONSE CURVES CAN BE EXAMINED BY SITE AND TYPE OF TUMOR, BY ROUTE AND SCHEDULE OF EXPOSURE, AND BY SPECIES AND STRAIN OF ANIMAL. THE UPDATED EPIDEMIOLOGIC STUDIES PRESENTED IN THIS VOLUME OF MORTALITY AMONG WORKERS EXPOSED TO VC REINFORCE THE LABORATORY FINDINGS OF MULTISITE CARCINOGENICITY. DATA DEMONSTRATING THE MUTAGENIC AND TRANSPLACENTAL EFFECTS OF VCM ARE ALSO UPDATED AND SUMMARIZED. THE CARCINOGENICITY OF PVC DUST IS EVALUATED BOTH EXPERIMENTALLY AND EPIDEMIOLOGICALLY IN THESE PROCEEDINGS. THE RESULTS ARE NOT DEFINITIVE.
DESCRIPTORS ***** TOXICITY;VINYL CHLORIDE;PVC;RATS;MAN;EPIDEMIOLOGY;CARCINOGENICITY;INHALATION;MOUSE;LUNGS;EFFECTS;PVC DUST;RISK ASSESSMENT;VCM;
HELD TERMS PNEUMOCONIOSIS;
REVIEW YEAR 1996

BFG52899

DOCUMENT TYPE publication
 TITLE OR SUBJECT follow-up study on the carcinogenicity of vinyl chloride and vinyl acetate in mice: tumor incidence and mortality subsequent to exposure.
 AUTHOR/AFFILIATION hong cb,none;winston jm,none;thornburg lp,none;lee co,none;
 ORIGIN J OF TOXICOLOGY AND ENVIRONMENTAL HEALTH,VOL.7 pp.909-924;
 DATE 1981
 DESCRIPTORS ***** vcm;cancer;RAT;effects
 REVIEW YEAR 1996

Item 65

ACCESSION NUMBER 3350
 FILE LOCATION gen
 DOCUMENT TYPE report
 TITLE OR SUBJECT community risk assessment.
 AUTHOR/AFFILIATION downs td,none;
 ORIGIN NONE,VOL 37 PP.118-124;
 DATE 1978
 DESCRIPTORS ***** VCM;HUMAN;RATS;EFFECTS;CANCER;RISK ASSESSMENT;
 HELD TERMS TEXAS REPORTS ON BIOLOGY & MEDICINE;
 REVIEW YEAR 1996

Item 66

ACCESSION NUMBER 3337
 FILE LOCATION gen
 DOCUMENT TYPE report
 TITLE OR SUBJECT atsd toxicological profile for vinyl chloride.
 AUTHOR/AFFILIATION none,none;
 ORIGIN NONE,FOR EPA;
 DATE 1988

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DESCRIPTORS ***** VCM;HUMAN;EFFECTS;RATS;
HELD TERMS TECHNICAL RESOURCES INC;
REVIEW YEAR 1990

Item 67

ACCESSION NUMBER 3259
FILE LOCATION gen
DOCUMENT TYPE publication
TITLE OR SUBJECT development of techniques to monitor for exposure to vinyl chloride: monoclonal antibodies to
ethenoadenosine.
AUTHOR/AFFILIATION young tl,none;santalla ra,none;
ORIGIN NONE,VOL 9 NO.4 PP.589-592;
DATE 1988
DESCRIPTORS ***** VCM;BIOLOGICAL MONITORING;RISK assessment
HELD TERMS CARCINOGENESIS;
REVIEW YEAR 1996

Item 68

ACCESSION NUMBER 3238
FILE LOCATION gen
DOCUMENT TYPE publication
TITLE OR SUBJECT study of mortality among chemical workers in the Kanawha valley of West Virginia.
AUTHOR/AFFILIATION rinsky ra,none;ott g,none;ward e,none;greenberg h,none;halperin w,none;leat t,none;
ORIGIN american j of industrial medicine, vol 13 pp.429-438;
DATE 1988
ABSTRACT increase in liver and lympo- and reticulosarcoma seen in a cohort of 29,139 males.
DESCRIPTORS ***** vcm;epidemiology;human;effects;cancer;liver;
HELD TERMS LYMPHOPLOIETIC;
REVIEW YEAR 1996

Item 69

ACCESSION NUMBER 3207
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EFFECT OF VINYL CHLORIDE ON TESTIS IN RATS
AUTHOR/AFFILIATION BI H,NONE;WANG Y,NONE;H HUANG,NONE;MENG D,NONE;
ORIGIN NONE,VOL 10 NO.3 PP.281-289;
DATE 1985
ABSTRACT THE AUTHORS EXPOSED MALE RATS TO 0, 10, 100, 3000 PPM VCM, 6HR/D, 6D/WK FOR 12 MONTHS WITH
OBSERVATION THROUGH 18 MONTHS. THIS WORK IS NOT WELL REPORTED. THEY INDICATE A DECREASE IN
TESTICULAR ORGAN TO BODY WT RATIO IS DUE TO VCM. HOWEVER, THIS EFFECT WAS SEEN ONLY AT 6 MONTHS,
NOT AT THE 3, 12, AND 18 MONTHS OBSERVATIONS. THIS SUGGESTS THAT THIS EFFECT MAY BE AN ARTIFACT
RATHER THAN VCM-RELATED. THE AUTHORS COULD HAVE PERSUED THIS FURTHER BY COMPARING ORGAN TO BRAIN
WT RATIOS. THE AUTHORS ALSO REPORT SEMINIFEROUS TUBULES DAMAGED (DISAPPEARANCE OF SPERMATIDS,
SPERMATOCYTS) IN 3 CATAGORIES 10-50, 50-100, AND MORE THAN 100. THERE WAS AN INCREASE IN THE
INCIDENCE OF ANIMALS WITH CHANGES AT 100 AND 3000 PPM, BUT THIS INCREASE APPEARED TO BE LIMITED
TO LOW GRADE (10-50) CATEGORY BECAUSE THE RELATIVE OCCURRENCE IN THE 3 CATEGORIES DID NOT CHANGE

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WITH DOSE. THIS IN ITSELF WOULD SUGGEST THAT, IF COMPOUND RELATED, VCM WOULD NOT BE EXPECTED TO CAUSE AND REPRODUCTIVE BECAUSE THERE IS NO EVIDENCE OF AN INCREASE IN SEVERITY OF DAMAGE WITH DOSE. IF THE AUTHORS HAD PROVIDED INFORMATION ON WHEN THESE CHANGES WERE OBSERVED (3, 6, 12, OR 18 MONTHS) IT MIGHT HAVE BEEN EASIER TO DETERMINE THE RELEVANCE OF THESE OBSERVATIONS TO VCM.

DESCRIPTORS ***** VCM;CHRONIC;EFFECTS;TESTES;REPRODUCTION;
 HELD TERMS ECOTOXICOLOGY & ENVIRONMENTAL SAFETY;SPERM;
 REVIEW YEAR 1996

Item 70

ACCESSION NUMBER 3203
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT increasing evidence of the rise of cancer in workers exposed to vinylchloride.
 AUTHOR/AFFILIATION smulevich vb,none;fedotova iv,none;filatova vs,none;
 ORIGIN british j of industrial medicine, vol 45(2) pp.93-97;
 DATE 1988
 ABSTRACT authors allege leukemias and lymphomas in the study group and the absence of angiosarcomas reflect the action of different levels of vcm.
 DESCRIPTORS ***** vcm;angiosarcoma;leukemia;lymphoma;cancer;human;effects;epidemiology
 REVIEW YEAR 1996

Item 71

ACCESSION NUMBER 3201
 FILE LOCATION gen
 DOCUMENT TYPE report
 TITLE OR SUBJECT potential effects of vinyl chloride on human offspring.
 AUTHOR/AFFILIATION none,none;
 ORIGIN NONE;
 DATE 1987
 ABSTRACT vcm does not cause birth defects or miscarriages, but is of concern as a potential transplacental carcinogen.
 DESCRIPTORS ***** VCM;BIRTH DEFECTS;REPRODUCTION;EFFECTS;CANCER;HUMAN;
 HELD TERMS VINYL INSTITUTE;
 REVIEW YEAR 1996

Item 72

ACCESSION NUMBER 3159
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT mortality study of workers in a polyvinyl-chloride production plant.
 AUTHOR/AFFILIATION duck bw,none;carter jt,none;coombes ej,none;
 ORIGIN the lancet, pp.1197;
 DATE 1975
 ABSTRACT 1 case of angiosarcoma found in a cohort of 2100 workers exposed to vcm for up to 27 years.
 DESCRIPTORS ***** vcm;angiosarcoma;liver;human;effects
 KWIC INDEX NUMBER 02613
 REVIEW YEAR 1996

BFG52902

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Item 73

ACCESSION NUMBER 3148
FILE LOCATION gen
DOCUMENT TYPE publication
TITLE OR SUBJECT angiosarcoma of the liver among printers.
AUTHOR/AFFILIATION herbert jt,none;
ORIGIN UNKNOWN;
DATE 1976
ABSTRACT 5 cases identified; possible link to vcm suggested.
DESCRIPTORS ***** vcm;angiosarcoma;liver;human;effects
KWIC INDEX NUMBER 02331
REVIEW YEAR 1996

Item 74

ACCESSION NUMBER 3129
FILE LOCATION gen
DOCUMENT TYPE publication
TITLE OR SUBJECT vinyl chloride contamination: the hidden threat.
AUTHOR/AFFILIATION wolf k,none;holland r,none;rajaratnam a,none;
ORIGIN NONE,VOL 15 PP.163-184;
DATE 1987
ABSTRACT discusses vcm in ground water and sanitary landfills.
DESCRIPTORS ***** VCM;WATER;
HELD TERMS GROUND WATER;LANDFILL;J OF HAZARDOUS WASTE;
REVIEW YEAR 1996

Item 75

ACCESSION NUMBER 3115
FILE LOCATION gen
DOCUMENT TYPE report
TITLE OR SUBJECT literature search on pvc degradation.
AUTHOR/AFFILIATION none,none;
ORIGIN NONE,NONE;
DATE 1987
ABSTRACT no evidence that pvc is degraded in soil or water to vcm.
DESCRIPTORS ***** vcm;pvc;degradation;biodegradation;water
REVIEW YEAR 1990

Item 76

ACCESSION NUMBER 3114
FILE LOCATION gen
DOCUMENT TYPE correspondence
TITLE OR SUBJECT angiosarcoma case report.
AUTHOR/AFFILIATION DRUMWRIGHT JR,NONE;
ORIGIN NONE,TO BFG;

BFG52903

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DATE 1987
 ABSTRACT angiosarcoma case in a pvc worker.
 DESCRIPTORS ***** vcm;pvc;angiosarcoma;human;effects
 HELD TERMS VISTA CHEMICAL CO;
 REVIEW YEAR 1992

Item 77

ACCESSION NUMBER 3113
 FILE LOCATION gen
 DOCUMENT TYPE report
 TITLE OR SUBJECT literature search on the degradation of tce to vcm.
 AUTHOR/AFFILIATION none,none;
 ORIGIN NONE,NONE;
 DATE 1987
 ABSTRACT tce is biodegraded to vcm.
 DESCRIPTORS ***** vcm;trichloroethylene;degradation;biodegradation;WATER;
 HELD TERMS DIALOG INFORMATION SERVICES; GROUNDWATER;SOIL;
 REVIEW YEAR 1994

Item 78

ACCESSION NUMBER 3112
 FILE LOCATION gen
 DOCUMENT TYPE LITERATURE SEARCH
 TITLE OR SUBJECT literature search vcm/reproductive effects.
 AUTHOR/AFFILIATION none,none;
 ORIGIN NONE,NONE;
 DATE 1987
 DESCRIPTORS ***** vcm;birth defects;reproduction;effects
 REVIEW YEAR 1994

Item 79

ACCESSION NUMBER 3111
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT spontaneous abortions among women employed in the plastics industry.
 AUTHOR/AFFILIATION lindholm m,none;heiminki K,none;kyronen p,none;
 ORIGIN AMERICAN J OF INDUSTRIAL MEDICINE,VOL 8 PP.579-586;
 DATE 1985
 DESCRIPTORS ***** vcm;birth defects;reproduction;human;effects;epidemiology;mutagenicity;teratogenicity
 REVIEW YEAR 1994

Item 80

ACCESSION NUMBER 3110
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT the use and abuse of subgroup analysis in epidemiological research.

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22521028

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Order number 911001-135640-MIZ -001-007
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AUTHOR/AFFILIATION stallone ra,none;
 ORIGIN preventive medicine, vol 16 pp.183-194;
 DATE 1987
 ABSTRACT critique of infants study of genetic risks of vcm.
 DESCRIPTORS ***** vcm;reproduction;birth defects;epidemiology;teratogenicity;human;effects;mutagenicity
 REVIEW YEAR 1994

Item 81

ACCESSION NUMBER 3109
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT genetic risks of vinyl chloride.
 AUTHOR/AFFILIATION paddle gm,none;
 ORIGIN the lancet, pp.1079;
 DATE 1976, may 15
 DESCRIPTORS ***** VCM;BIRTH DEFECTS;REPRODUCTION ;EFFECTS;HUMAN;taratogenicity;mutagenicity;epidemiology
 REVIEW YEAR 1994

Item 82

ACCESSION NUMBER 3108
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT genetic risks of vinyl chloride.
 AUTHOR/AFFILIATION infants pf,niosh;wagener jk,niosh;mcmichael aj,niosh;waxweiler rj,niosh;falk h,niosh;
 ORIGIN the lancet, pp.734-735;
 DATE 1976, april 3
 ABSTRACT AUTHORS REPORT EXCESS FETAL LOSS IN WIVES OF WORKERS EXPOSED TO VCM. HOWEVER, THESE RESULTS ARE QUESTIONABLE BECAUSE OF STUDY FLAWS (SEE MAC MAHON, 1977, VINYL CHLORIDE AND HUMAN REPRODUCTION AND DOWNS ET AL, 1977, VINYL CHLORIDE, BIRTH DEFECTS AND FETAL MASTAGE A CRITICAL REVIEW.)
 DESCRIPTORS ***** vcm;reproduction;birth defects;mutagenicity;human;effects;teratogenicity;epidemiology;FETAL TOXICITY;
 KWIC INDEX NUMBER 01669
 REVIEW YEAR 1994

Item 83

ACCESSION NUMBER 3105
 FILE LOCATION gen
 DOCUMENT TYPE report
 TITLE OR SUBJECT literature search on vcm immunotoxicity.
 AUTHOR/AFFILIATION none,none;
 ORIGIN NONE,NONE;
 DATE 1987
 ABSTRACT vcm does not cause immunodeficiency.
 DESCRIPTORS ***** VCM;
 HELD TERMS IMMUNOTOXICITY;IMMUNODEFICIENCY;DIALOG INFORMATION SERVICES;
 REVIEW YEAR 1994

BFG52905

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Order number 911001-135640-MIZ -001-007

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Item 84

ACCESSION NUMBER 3098
 FILE LOCATION GEN
 DOCUMENT TYPE GUIDELINES
 TITLE OR SUBJECT NATIONAL PRIMARY DRINKING WATER REGULATIONS FOR CERTAIN VOLATILE SYNTHETIC ORGANIC CHEMICALS--MONITORING FOR UNREGULATED CONTAMINANTS: FINAL RULE
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN FEDERAL REGISTER,VOL 52 NO.130 PP.25690-25717;
 DATE 1987, JULY 8
 ABSTRACT THE REGULATIONS SET MAXIMUM LIMITS OF 0.002 MILLIGRAM PER LITER OF VINYL CHLORIDE;0.005 MILLIGRAM PER LITER FOR BENZENE,CARBON TETRACHLORIDE, 1,2-DICHLOROETHANE AND TRICHLOROETHYLENE;0.007 MILLIGRAM PER LITER FOR 1,1-DICHLOROETHYLENE;0.075 MILLIGRAM PER LITER FOR PARA-DICHLOROBENZENE; AND 0.2 MILLIGRAM PER LITER FOR 1,1,1-TRICHLOROETHANE. THE REPORTING REQUIREMENTS REQUIRE PUBLIC WATER SYSTEMS TO REPORT MONITORING DATA TO STATES WITHIN SPECIFIED TIME PERIODS, AND THE PUBLIC NOTIFICATION PROVISIONS REQUIRE EACH PUBLIC WATER SYSTEM TO GIVE NOTICE TO PERSONS IT SERVES IF IT VIOLATES THE MCLS (MAXIMUM CONTAMINANT LEVELS) OR FAILS TO COMPLY WITH THE MONITORING REQUIREMENTS.
 DESCRIPTORS ***** TRICHLOROETHYLENE;CARBON TETRACHLORIDE;1,1,1-TRICHLOROETHANE;VINYL CHLORIDE;1,2-DICHLOROETHANE; BENZENE;1,1-DICHLOROETHYLENE;DRINKING WATER;MONITORING;CONTAMINANTS;
 HELD TERMS NPDM;PARA-DICHLOROBENZENE;
 REVIEW YEAR 1992

Item 85

ACCESSION NUMBER 3097
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT incidence of cancer among vinylchloride and polyvinylchloride workers: further evidence for an association with malignant melanoma.
 AUTHOR/AFFILIATION ten bergs wf,none;
 ORIGIN BRITISH J OF INDUSTRIAL MEDICINE,VOL 44 NO.10 PP.718-719;
 DATE 1987
 DESCRIPTORS ***** vcm;cancer;human;effects;
 HELD TERMS MELANOMA;
 REVIEW YEAR 1994

Item 86

ACCESSION NUMBER 3096
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT exposure to vinyl chloride monomer: report on a cohort study.
 AUTHOR/AFFILIATION laplanche a,none;claval f,none;contassot j-c,none;lanouziere c,none;
 ORIGIN BRITISH J OF INDUSTRIAL MEDICINE,VOL 44 NO.10 PP.711-715;
 DATE 1987
 DESCRIPTORS ***** vcm;human;affects;epidemiology;angiosarcoma
 REVIEW YEAR 1994

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Item 87

ACCESSION NUMBER 2970
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT effects of exposure to vinyl chloride: an assessment of the evidence.
 AUTHOR/AFFILIATION doll r,none;
 ORIGIN NONE,VOL 14 NO.2 PP.61-78;
 DATE 1988
 ABSTRACT review and critique of epidemiology studies of vcm exposed populations.
 DESCRIPTORS ***** vcm;cancer;angiosarcoma;human;effects;epidemiology
 HELD TERMS SCANDINAVIAN J OR WORK ENVIRONMENT & HEALTH;
 REVIEW YEAR 1996

Item 88

ACCESSION NUMBER 2967
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT a scientific basis for the risk assessment of vinyl chloride.
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE,VOL 7 PP.120-127;
 DATE 1987
 ABSTRACT risk assessments based on animal and human data are presented. it is concluded that continuous exposure to .001 mg/m(3) corresponds to a risk of 10(-6) per lifetime.
 DESCRIPTORS ***** vcm;cancer;risk assessment;RATS;effects;human
 HELD TERMS REGULATORY TOXICOLOGY & PHARMACOLOGY;
 REVIEW YEAR 1996

Item 89

ACCESSION NUMBER 2963
 FILE LOCATION gen
 DOCUMENT TYPE publication
 TITLE OR SUBJECT risk of angiosarcoma in workers exposed to vinyl chloride as predicted from studies in rats.
 AUTHOR/AFFILIATION GEHRING PJ,DOM CHEMICAL CO;NATANABE PG,SAME;PARK CN,SAME;
 ORIGIN toxicology and applied pharmacology, vol 49 pp.15-21;
 DATE 1979
 ABSTRACT the predicted incidence of hepatic angiosarcoma using the probit model is 1.5x10(-8).
 DESCRIPTORS ***** vcm;rat;angiosarcoma;cancer;risk assessment
 REVIEW YEAR 1996

Item 90

ACCESSION NUMBER 2838
 FILE LOCATION GEN
 DOCUMENT TYPE PAPER
 TITLE OR SUBJECT A MORTALITY STUDY OF VINYL CHLORIDE MONOMER WORKERS EMPLOYED IN THE UNITED KINGDOM 1940-1974
 AUTHOR/AFFILIATION JONES RD,NONE;THOMAS PG,NONE;SMITH DM,NONE;

BFG52907

22521031

ORIGIN ICI;
DATE 1987, MAY 22
ABSTRACT THE MORTALITY EXPERIENCE OF 5,498 MALE WORKERS EMPLOYED FOR AT LEAST ONE YEAR DURING 1940-1974 IN THE UK VINYL CHLORIDE INDUSTRY WAS FOLLOWED THROUGH TO DECEMBER 31, 1984. NON-SECONDARY LIVER TUMORS ACCOUNTED FOR 11 DEATHS, (11/1.94, P<0.001) OF WHICH 7 WERE ANGIOSARCOMAS. ALL ANGIOSARCOMA DEATHS OCCURRED IN AUTOCLAVE WORKERS WITH A MEDIAN LATENCY FROM DATE OF FIRST EXPOSURE OF 25 YEARS. A STRONG HEALTHY WORKER EFFECT WAS SEEN. OTHER THAN FOR THE LIVER, NO INCREASED INCIDENCE OF CANCER DEATHS ATTRIBUTABLE TO VCM EXPOSURE WAS FOUND. THERE WAS NO EVIDENCE OF INCREASED MORTALITY FROM CHRONIC LIVER DISEASE. THE INCIDENCE OF DEATH FROM RESPIRATORY DISEASE WAS LOW AND WAS NOT AFFECTED BY PVC DUST EXPOSURE.

DESCRIPTORS ***** EPIDEMIOLOGY;VCM;WORKERS;EFFECTS;
REVIEW YEAR 1995

Item 91

ACCESSION NUMBER 2833
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT STUDY OF ILLNESSES DUE TO VINYL CHLORIDE
AUTHOR/AFFILIATION SUCIU I,NONE;DREJMAN I,NONE;VALASKAI M,NONE;
ORIGIN NONE,VOL 58 NO.4 PP.261-271;
DATE 1967
ABSTRACT EARLY DESCRIPTION OF THE EFFECTS OF HIGH EXPOSURES TO VCM.
DESCRIPTORS ***** VCM;ACUTE;HUMAN;EFFECTS;SKIN;RAYNAUD'S SYNDROME;SCLERODERMA;
HELD TERMS LA MEDICINA DEL LAVORO;
REVIEW YEAR 1995

Item 92

ACCESSION NUMBER 2780
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT AN UPDATE OF AN EPIDEMIOLOGY STUDY OF VINYL CHLORIDE WORKERS (1942-1982)
AUTHOR/AFFILIATION WONG,NONE;
ORIGIN CMA;
DATE 1986, OCTOBER 17
ABSTRACT THE COHORT CONSISTED OF 10,173 MEN WHO HAD WORKED FOR AT LEAST ONE YEAR IN JOBS INVOLVING EXPOSURE TO VINYL CHLORIDE PRIOR TO JANUARY 1, 1973. THESE MEN WERE EMPLOYED AT 37 PLANTS IN THE U.S., BELONGING TO 17 COMPANIES. OBSERVATION OF THE MORTALITY EXPERIENCE OF THE COHORT WAS EXTENDED FROM DECEMBER 31, 1972 TO DECEMBER 31, 1982. A TOTAL OF 1536 COHORT MEMBERS WERE IDENTIFIED TO HAVE DIED. THE OBSERVED MORTALITY, BY CAUSE, WAS COMPARED WITH THE EXPECTED BASED ON U.S. MORTALITY RATES, STANDARDIZED FOR AGE, RACE AND CALENDAR TIME. ANALYSES BY LENGTH OF EXPOSURE, LATENCY, AGE AT FIRST EXPOSURE, CALENDAR YEAR OF FIRST EXPOSURE AND TYPE OF PRODUCTS WERE PERFORMED. THE STUDY CONFIRMED THAT THE VINYL CHLORIDE WORKERS EXPERIENCED SIGNIFICANT MORTALITY EXCESSES IN ANGIOSARCOMA (15 DEATHS), CANCER OF THE LIVER AND BILIARY TRACT (SMR=641), AND CANCER OF THE BRAIN AND OTHER CENTRAL NERVOUS SYSTEM (SMR=180). IN ADDITION, THE STUDY ALSO FOUND A SIGNIFICANT MORTALITY EXCESS IN EMPHYSEMA (SMR=179). ON THE OTHER HAND, THE STUDY DID NOT FIND ANY EXCESS IN EITHER RESPIRATORY CANCER OR LYMPHATIC AND HEMATOPOIETIC CANCER.

DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;EPIDEMIOLOGY;ANGIOSARCOMA;CANCER;LIVER;BRAIN;CNS;EMPHYSEMA;
HELD TERMS BILIARY TRACT;

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ACCESSION NUMBER 2778
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT MORTALITY STUDY OF 5000 VC MANUFACTURERS IN NINE ITALIAN PLANTS
AUTHOR/AFFILIATION BELLI ET AL,NONE;
ORIGIN NONE,NONE;
DATE 1986
ABSTRACT INTERIM REPORT.
DESCRIPTORS ***** PVC;VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;CARCINOGENICITY;
REVIEW YEAR 1988

Item 94

ACCESSION NUMBER 2619
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE: AN ASSESSMENT OF THE RISK OF OCCUPATIONAL EXPOSURE
AUTHOR/AFFILIATION PURCHASE IFH,NONE;STAFFORD J,NONE;PADDLE GM,ICI;
ORIGIN NONE,VOL 25 NO.2 PP.187-202;
DATE 1987
ABSTRACT ALTHOUGH PRECISE ESTIMATES OF EXPOSURE ARE NOT AVAILABLE FOR THE PERIODS OF MOST INTEREST, THE PATTERN OF CASES ROUGHLY SUGGESTS THAT EXTREMELY HIGH EXPOSURES WERE NECESSARY FOR THE INDUCTION OF ANGIOSARCOMA OF THE LIVER (ASL).
DESCRIPTORS ***** ANGIOSARCOMA;LIVER;VCM;RISK ASSESSMENT;OCCUPATIONAL EXPOSURE;
REVIEW YEAR 1992

Item 95

ACCESSION NUMBER 2615
FILE LOCATION gen
DOCUMENT TYPE publication
TITLE OR SUBJECT incidence of cancer among vinyl chloride and polyvinyl chloride workers: further evidence for an association with malignant melanoma.
AUTHOR/AFFILIATION heldeas ss,none;anderson ss,none;langard s,none;
ORIGIN BRITISH J OF INDUSTRIAL MEDICINE,VOL 44 NO.4pp.278-280;
DATE 1987
DESCRIPTORS ***** vcm;pvc;skin;human;effects
REVIEW YEAR 1995

Item 96

ACCESSION NUMBER 2486
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT REVIEW OF PULMONARY EFFECTS OF POLY(VINYL CHLORIDE) AND VINYL CHLORIDE EXPOSURE
AUTHOR/AFFILIATION LILIS R,NONE;

BFG52909

ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 41 PP.167-169;
DATE 1981
DESCRIPTORS ***** PVC DUST;PULMONARY FUNCTION;EFFECTS;VCM;CARCINOGENICITY;
HELD TERMS IMMUNOTOXICITY;
COMMENTS RKH(87) DOCUMENT ON SHELVES.
REVIEW YEAR 1995

Item 97

ACCESSION NUMBER 2485
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,NONE;SIMMS BG,NONE;GOLDSTEIN AL,NONE;KILIAN DJ,NONE;
ORIGIN TOX AND APPLIED,VOL 44 NO.3 PP.617-641;
DATE 1978
DESCRIPTORS ***** VCM;HUMAN;MICE;EFFECTS;
HELD TERMS IMMUNOTOXICITY;
COMMENTS RKH(87) DOCUMENT ON SHELVES.
REVIEW YEAR 1995

Item 98

ACCESSION NUMBER 2484
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT IMMUNOLOGIC EFFECTS OF VINYL CHORIDE IN MICE
AUTHOR/AFFILIATION SHARMA RP,NONE;GEHRING PJ,NONE;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,VOL 320 PP.551-563;
DATE 1979
ABSTRACT METABOLITES OF VCM MAY BE REPSONSIBLE FOR THE STIMULATION OF LYMPHOCYTE TRANSFORMATION OBSERVED
IN SPLENIC CULTURES.
DESCRIPTORS ***** VCM;MICE;EFFECTS;
HELD TERMS IMMUNOTOXICITY;
COMMENTS RKH(87) DOCUMENT ON SHELVES.
REVIEW YEAR 1995

Item 99

ACCESSION NUMBER 2482
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT IMMUNOTOXICOLOGIC STUDIES WITH VINYL CHLORIDE IN RABBITS AND MICE
AUTHOR/AFFILIATION SHARMA RP,NONE;YAKEL HO,DON CHEMICAL CO;GEHRING PJ,SAME;
ORIGIN NONE,VOL 2 PP.295-299;
DATE 1980
ABSTRACT THE STUDY INDICATED THAT ALTHOUGH VCM MAY CAUSE AN APPARENT ENHANCEMENT OF IMMUNE REACTIVITY, IT
DOES NOT ALTER THE IMMUNOLOGIC REPSONSE TO SIMULTANEOUSLY ADMINISTERED ANTIGENS.
DESCRIPTORS ***** VCM;MICE;RABBITS;EFFECTS;

BFG52910

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Order number 911001-135640-MIZ -001-007

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HELD TERMS IMMUNOTOXICITY;INTERNATIONAL J OF IMMUNOPHARMACOLOGY;
 REVIEW YEAR 1995

Item 100

ACCESSION NUMBER 2481
 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;NELSH KI,NONE;BERNSTEIN RM,NONE;MCGREGOR AR,NONE;
 LLOYD JONES JK,NONE;
 ORIGIN THE LANCET, PP.53-55;
 DATE 1983
 ABSTRACT VARIOUS ANTIGENS WERE OBSERVED IN WORKERS WITH 'VCM DISEASE'.' S
 DESCRIPTORS ***** VCM;HUMAN;EFFECTS;RAYNAUD'S SYNDROME;
 HELD TERMS IMMUNOTOXICITY;
 REVIEW YEAR 1995

Item 101

ACCESSION NUMBER 2480
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT CHEMICAL INTERACTIONS AND COMPROMISED IMMUNE SYSTEM
 AUTHOR/AFFILIATION SHARMA RP,NONE;
 ORIGIN NONE,VOL 4 PP.345-351;
 DATE 1984
 ABSTRACT THE IMMUNOSTIMULATING EFFECT OF VCM IS DISCUSSED.
 DESCRIPTORS ***** VCM;HUMAN;EFFECTS;MICE;
 HELD TERMS IMMUNOTOXICITY;FUNDAMENTAL & APPLIED TOX;
 REVIEW YEAR 1995

Item 102

ACCESSION NUMBER 2479
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT HISTOCOMPATIBILITY ANTIGENS (HLA) IN DERMATOLOGY
 AUTHOR/AFFILIATION ROWELL NR,NONE;
 ORIGIN BRITISH J OF DERMATOLOGY,VOL 3 PP.347-357;
 DATE 1984
 ABSTRACT VARIOUS ANTIGENS WERE FOUND IN PATIENTS WITH 'VCM DISEASE'.
 DESCRIPTORS ***** VCM;HUMAN;EFFECTS;RAYNAUD'S SYNDROME;
 HELD TERMS IMMUNOTOXICITY;
 REVIEW YEAR 1995

Item 103

ACCESSION NUMBER 2478
 FILE LOCATION GEN

BFG52911

DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE IMMUNOTOXICITY OF SELECTED ENVIRONMENTAL CHEMICALS, PESTICIDES AND HEAVY METALS
AUTHOR/AFFILIATION EXON JH, NONE;
ORIGIN NONE, PP. 355-368;
DATE 1984
ABSTRACT A REVIEW OF STUDIES INDICATES THAT VCM CAUSES HYPERACTIVE HUMORAL IMMUNE RESPONSES AND APPEARANCE OF CIRCULATING IMMUNE COMPLEXES.
DESCRIPTORS ***** VCM; HUMAN; EFFECTS; RAYNAUD'S SYNDROME;
HELD TERMS IMMUNOTOXICITY; UNIV OF IDAHO;
REVIEW YEAR 1995

Item 104

ACCESSION NUMBER 2477
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VASCULITIC PURPURA IN VINYL CHLORIDE DISEASE: A CASE REPORT
AUTHOR/AFFILIATION MAGNAVITA N, NONE; BERGAMASCHI A, NONE; GARCOVICH A, NONE; GIULIANO G, NONE;
ORIGIN NONE, VOL 37 NO.5 PP. 382-388;
DATE 1986
ABSTRACT THE FINDING OF INCREASED CIRCULATING IMMUNE COMPLEXES AND ANTI-SMOOTH MUSCLE AUTOANTIBODIES STRENGTHENS THE HYPOTHESIS THAT IMMUNOLOGIC CHANGES PLAY A ROLE IN THE APPEARANCE OF 'VINYLIC PURPURA'.
DESCRIPTORS ***** VCM; HUMAN; EFFECTS; RAYNAUD'S SYNDROME;
HELD TERMS IMMUNOTOXICITY
REVIEW YEAR 1995

Item 105

ACCESSION NUMBER 2476
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CRYOGLOBULINEMIA IN RAYNAUD'S PHENOMENON DUE TO VINYL CHLORIDE
AUTHOR/AFFILIATION LANGAUER-LEWONICKA H, NONE; DUDZIAK Z, NONE; BYCZKOWSKA Z, NONE;
ORIGIN INTERNATIONAL ARCHIVES OF OCCUPATIONAL & ENVIRONMENTAL HEALTH, VOL 36 PP. 197-207;
DATE 1976
ABSTRACT RAYNAUD'S PHENOMENON WAS DESCRIBED IN 22 VCM POLYMERIZATION WORKERS. INCREASES IN IMMUNOPROTEIN AND COMPLEXES WERE OBSERVED.
DESCRIPTORS ***** VCM; HUMAN; EFFECTS; RAYNAUD'S SYNDROME;
HELD TERMS IMMUNOTOXICITY
REVIEW YEAR 1995

Item 106

ACCESSION NUMBER 2475
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT IMMUNOLOGICAL MECHANISMS IN THE PATHOGENESIS OF VINYL CHLORIDE DISEASE
AUTHOR/AFFILIATION HARD AM, NONE; UDNOON S, NONE; HATKINS J, NONE; WALKER AE, NONE; DARKE CS, NONE;
ORIGIN BRITISH MEDICAL JOURNAL, VOL 1 PP. 936-938;

BFG52912

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DATE 1976, APRIL 17
ABSTRACT IMMUNOLOGICAL INVESTIGATIONS REVEALED THE PRESENCE OF CIRCULATING IMMUNE COMPLEXES IN 19 OF 28 PATIENTS WITH 'VCM DISEASE' AND 2 OF 30 WORKERS WHO WERE EXPOSED TO VCM.
DESCRIPTORS ***** VCM;HUMAN;EFFECTS;RAYNAUD'S SYNDROME;
HELD TERMS IMMUNOTOXICITY;
REVIEW YEAR 1995

Item 107

ACCESSION NUMBER 2459
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HEPATOTOXICITY OF VINYL CHLORIDE AND 1,1-DICHLOROETHYLENE: ROLE OF MIXED FUNCTION OXIDASE SYSTEM.
AUTHOR/AFFILIATION REYNOLDS ES,NONE;MOSLEN MT,NONE;SZABO S,NONE;JAEGER R,NONE;MURPHY SD,NONE;
ORIGIN UNKNOWN;
DATE 1975
DESCRIPTORS ***** VCM;VDC;METABOLISM;RATS;
HELD TERMS HEPATOTOXICITY;
REVIEW YEAR 1990

Item 108

ACCESSION NUMBER 2451
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT A PROPORTIONAL MORTALITY STUDY OF WORKERS EXPOSED TO VINYL CHLORIDE 1947-74.
AUTHOR/AFFILIATION PASTERNAK BS,NONE;
ORIGIN UNKNOWN
DATE 1974
ABSTRACT FIRESTONE POTTSTOWN STUDY.
DESCRIPTORS ***** VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;CARCINOGENICITY
REVIEW YEAR 1990

Item 109

ACCESSION NUMBER 2449
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT IMMUNOPATHOLOGIC OBSERVATIONS IN LIVER ANGIOSARCOMA.
AUTHOR/AFFILIATION ESPINOSA E,NONE;
ORIGIN UNIV OF LOUISVILLE;
DATE 1971
DESCRIPTORS ***** VCM;LIVER;ANGIOSARCOMA;HUMAN;EFFECTS;
HELD TERMS IMMUNOLOGIC;
REVIEW YEAR 1990

Item 110

ACCESSION NUMBER 2448

BFG52913

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Order number 911001-135640-KIZ -001-007

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FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT EVALUATION OF THE ENVIRONMENTAL TOXICANTS VINYL CHLORIDE (VC) AND VINYLIDENE CHLORIDE.
 AUTHOR/AFFILIATION LEE CC, NONE;WINSTON JM,NONE;PETERS PJ,NONE;BHANDARI JC,NONE;HODGSON JR,NONE;HAGENSEN JH,NONE;
 REDDIG TM,NONE;ELLIS ER,NONE;
 ORIGIN NONE,FOR NIEHS;
 DATE 1977
 DESCRIPTORS ***** VCM;VDC;RATS;INHALATION;CHRONIC
 HELD TERMS MIDWEST RESEARCH INSTITUTE;
 REVIEW YEAR 1990

Item 111

ACCESSION NUMBER 2446
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER IN VINYL CHLORIDE/POLYVINYL CHLORIDE WORKERS.
 AUTHOR/AFFILIATION SPIRTAS R,NONE;KAMINSKI R,NONE;
 ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 20(6) PP.427-429;
 DATE 1978
 DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS
 REVIEW YEAR 1990

Item 112

ACCESSION NUMBER 2445
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT TEN CASES OF LIVER ANGIOSARCOMA EXPERIENCED IN WORKERS EXPOSED TO VCM.
 AUTHOR/AFFILIATION BERROD J,NONE;LAZARD P,NONE;PIERRE C,NONE;PUECH AM,NONE;RAVIER E,NONE;RETY J,NONE;SMAGGHE G,NONE;
 ORIGIN NONE,AT DUBROVNIK ON 9/28/78;
 DATE 1978
 DESCRIPTORS ***** VCM;HUMAN;EFFECTS;ANGIOSARCOMA
 HELD TERMS 19TH INTERNATIONAL OCCUPATIONAL MEDICINE CONFERENCE;
 REVIEW YEAR 1990

Item 113

ACCESSION NUMBER 2443
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT EPIDEMIOLOGICAL STUDY OF VINYL CHLORIDE WORKERS.
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE,FOR CMA;
 DATE 1978, JANUARY
 DESCRIPTORS ***** VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;CARCINOGENICITY
 HELD TERMS EQUITABLE ENVIRONMENTAL HEALTH INC;
 REVIEW YEAR 1990

BFG52914

22521038

Item 114

ACCESSION NUMBER 2442
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT CRITIQUE OF CPSC VCM SINGLE EXPOSURE CANCER BIDASSAY IN RATS AND MICE.
AUTHOR/AFFILIATION TORKELSON TR,DOM CHEMICAL CO;
ORIGIN DOM CHEMICAL CO;
DATE 1979
DESCRIPTORS ***** VCM;RATS;MICE;INHALATION;CARCINOGENICITY
REVIEW YEAR 1990

Item 115

ACCESSION NUMBER 2441
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MORTALITY EXPERIENCE OF WORKERS IN A VINYL CHLORIDE MONOMER PRODUCTION PLANT.
AUTHOR/AFFILIATION BUFFLER PA,NONE;WOOD S,NONE;EIFLER C,NONE;SUAREZ L,NONE;KILIAN DJ,NONE;
ORIGIN J OF OCCUPATIONAL MEDICINE, VOL21(3) PP.195-203;
DATE 1979
DESCRIPTORS ***** VCM;EPIDEMIOLOGY;CARCINOGENICITY;HUMAN;EFFECTS
REVIEW YEAR 1990

Item 116

ACCESSION NUMBER 2440
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SHORT-TERM INHALATION TOXICITY OF HALOGENATED HYDROCARBONS.
AUTHOR/AFFILIATION JAEGER RJ,NONE;CONNOLLY RB,NONE;MURPHY SD,NONE;
ORIGIN ARCH ENVIRON HEALTH,VOL 30 PP.26-31;
DATE 1975
DESCRIPTORS ***** CARBON TETRACHLORIDE;VCM;INHALATION;RATS;LIVER;EFFECTS;1,1-DICHLOROETHYLENE;
HELD TERMS 1,1-DIFLUOROETHYLENE;2-CHLOROBUTADIENE;1,1-DIBROMOETHYLENE;
REVIEW YEAR 1990

Item 117

ACCESSION NUMBER 2430
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER: ANNUAL OCCURRENCE AND AETIOLOGY IN GREAT BRITAIN.
AUTHOR/AFFILIATION BAXTER PJ,NONE;ANTHONY PP,NONE;MACSHEEN RM,NONE;SCHEUER PJ,NONE;
ORIGIN BRITISH J OF INDUSTRIAL MEDICINE,VOL 37 PP.213-221;
DATE 1980
ABSTRACT THE ANNUAL OCCURRENCE OF ANGIOSARCOMA OF THE LIVER IN BRITAIN FROM 1963 TO 1977 WAS STUDIED. 35 CASES WERE CONFIRMED. 8 CASES WERE ATTRIBUTABLE TO THOROTRAST AND 2 TO VCM. ONE CASE APPEARED TO BE ATTRIBUTABLE TO ARSENICAL INTOXICATION.

BFG52915

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DESCRIPTORS ***** VCM;THOROTRAST;ARSENIC;ANGIOSARCOMA;HUMAN;EFFECTS
HELD TERMS ARSENICALS;
REVIEW YEAR 1991

Item 118

ACCESSION NUMBER 2429
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PROPORTIONAL MORTALITY AMONG VINYL-CHLORIDE WORKERS.
AUTHOR/AFFILIATION MONSON RR,NONE;PETERS JM,NONE;JOHNSON MN,NONE;
ORIGIN THE LANCET, PP.397-398;
DATE 1974
ABSTRACT A PROPORTIONAL MORTALITY STUDY OF 161 VCM WORKERS IS REPORTED. EXCESS CANCERS OF THE LIVER,
BILIARY TRACT, LUNG, AND BRAIN WERE NOTED.
DESCRIPTORS ***** VCM;HUMAN;EFFECTS;EPIDEMIOLOGY;CARCINOGENICITY
REVIEW YEAR 1991

Item 119

ACCESSION NUMBER 2428
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT IN VIVO OBSERVATIONS OF SKIN CAPILLARIES IN WORKERS EXPOSED TO VINYL CHLORIDE.
AUTHOR/AFFILIATION MARICQ HR,NONE;DARKE CS,NONE;ARCHIBALD RMCL,NONE;LEROY EC,NONE;
ORIGIN BRITISH J OF INDUSTRIAL MEDICINE,VOL 35 NO.1 PP.1-7;
DATE 1978
ABSTRACT VCM-EXPOSED EMPLOYEES FROM A PVC PRODUCTION PLANT IN ENGLAND WERE EXAMINED BY IN VIVO CAPILLARY
MICROSCOPY. ABNORMALITIES WERE NOTED.
DESCRIPTORS ***** VCM;PVC;IN VIVO;SCLERODERMA;
HELD TERMS CAPILLARY ABNORMALITIES;
KHIC INDEX NUMBER 03753
REVIEW YEAR 1990

Item 120

ACCESSION NUMBER 2427
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE BLASTOMOGENIC HAZARD OF VINYL CHLORIDE (A CLINICO-HYGIENIC AND EPIDEMIOLOGICAL STUDY).
AUTHOR/AFFILIATION FILATOVA VS,NONE;
ORIGIN NONE,VOL 1 PP.28-31;
DATE 1982
DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;EPIDEMIOLOGY;CARCINOGENICITY
HELD TERMS GIG.TR.PROF.ZABOL.;
KHIC INDEX NUMBER 05107
REVIEW YEAR 1990

Item 121

BFG52916

22521040

ACCESSION NUMBER 2426
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT MORTALITY AND CANCER MORBIDITY IN WORKERS IN THE SWEDISH PVC-PROCESSING INDUSTRY
AUTHOR/AFFILIATION HOLMBERG B,NONE;ELOFSSON S,NONE;HOLMLUND L,NONE;MAASING R,NONE;MOLINA G,NONE;NESTERHOLM P,NONE;
ORIGIN ICI, FOR APME MEETING IN SWEDEN;
DATE 1979
DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;EPIDEMIOLOGY;CARCINOGENICITY
KNIC INDEX NUMBER 05101
REVIEW YEAR 1990

Item 122

ACCESSION NUMBER 2424
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT INVESTIGATION OF THE DISEASES PRODUCED BY VINYL CHLORIDE.
AUTHOR/AFFILIATION SUCIU I,NONE;DREJMAN I,NONE;VALASKAI M,NONE;
ORIGIN MEDICINA INTERNA (BUCHAREST),VOL 15 PP.967-978;
DATE 1963
ABSTRACT EFFECTS NOTED: NARCOTIC, EUPHORIA, ANEBRIATION, DYSPEPTIC DISTURBANCES, HEPATOMEGALY,
SPLENOMEGALY, ACROOSTEOLYSIS, DERMATITIS, SCLERODERMA.
DESCRIPTORS ***** VCM;HUMAN;EFFECTS;ACUTE;CHRONIC;SCLERODERMA;ACROOSTEOLYSIS
KNIC INDEX NUMBER 05100
REVIEW YEAR 1990

Item 123

ACCESSION NUMBER 2423
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE TOXICITY OF VINYL CHLORIDE AS DETERMINED BY REPEATED EXPOSURE OF LABORATORY ANIMALS.
AUTHOR/AFFILIATION TORKELSON TR,NONE;OYEN F,NONE;ROME VK,NONE;
ORIGIN J OF AIHA,VOL 22 NO.5 PP.354-361;
DATE 1961
DESCRIPTORS ***** VCM;INHALATION;GUINEA PIGS;RATS;DOGS;RABBITS;CHRONIC;EFFECTS
KNIC INDEX NUMBER 05099
REVIEW YEAR 1990

Item 124

ACCESSION NUMBER 2422
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MUTAGENIC EFFECTS OF VINYL CHLORIDE ON DROSOPHIA MELANOGASTER WITH AND WITHOUT PRETREATMENT WITH
SODIUM PHENOBARBITURATE.
AUTHOR/AFFILIATION MAGNUSSON J,NONE;RAHEL C,NONE;
ORIGIN MUTATION RESEARCH, VOL 57 PP.307-312;
DATE 1978
ABSTRACT TREATMENT OF DROSOPHIA MALES WITH 1-20% VCM IN AIR GAVE AN INCREASED FREQUENCY OF COMPLETE AND

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MOSAIC RECESSIVE LETALS. PRETREATMENT WITH PHENOBARBITURATE FOR 24 HR CAUSED AN INCREASE IN THE MUTAGENIC EFFECT OF VCM. THIS INDICATES THAT THE MIXED FUNCTION OXIDASE SYSTEM CAN BE INDUCED IN DROSOPHILA.

DESCRIPTORS ***** VCM;MUTAGENICITY;IN VIVO
 HELD TERMS DROSOPHILA;
 KWIC INDEX NUMBER 05097
 REVIEW YEAR 1990

Item 125

ACCESSION NUMBER 2420
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT EXPERIMENTAL CHRONIC POISONING WITH VINYL CHLORIDE (MONOCHLOROETHENE).
 AUTHOR/AFFILIATION PRODAN L,NONE;SUCIU I,NONE;PISLARU V,NONE;ILEA E,NONE;PASCU L,NONE;
 ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,VOL 246 PP.159-163;
 DATE 1975
 ABSTRACT VCM EFFECTED GROWTH IN GUINEA PIGS. LESIONS WERE OBSERVED IN THE LIVER KIDNEYS, SPLEEN, AND LUNGS. VITAMIN C REDUCED THE SEVERITY OF THE LESIONS. REVERSIBILITY OF HEPATORENAL LESIONS WERE OBSERVED WHEN EXPOSURE WAS INTERRUPTED. FIBROTIC LESIONS IN THE LUNG WERE OBSERVED.

DESCRIPTORS ***** VCM;INHALATION;GUINEA PIGS;CHRONIC
 HELD TERMS VITAMIN C;
 KWIC INDEX NUMBER 05042
 REVIEW YEAR 1990

Item 126

ACCESSION NUMBER 2419
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT EPIDEMIOLOGICAL STUDIES OF VINYL CHLORIDE HEALTH EFFECTS IN THE UNITED STATES.
 AUTHOR/AFFILIATION FALK H,NONE;WAXMEILER RJ,NONE;
 ORIGIN NONE,VOL 69 PP.303-305;
 DATE 1976
 DESCRIPTORS ***** VCM;HUMAN;EFFECTS;EPIDEMIOLOGY
 HELD TERMS PROC.ROY.SOC.MED.;PROCEEDINGS ROYAL SOCIETY MEDICINE;
 KWIC INDEX NUMBER 05040
 REVIEW YEAR 1990

Item 127

ACCESSION NUMBER 2417
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT CHANGES IN THE ARTERIES IN THE HAND AND FINGERS DUE TO VINYL CHLORIDE EXPOSURE.
 AUTHOR/AFFILIATION KOISCHNITZ D,NONE;MARSTELLER HJ,NONE;LACKNER K,NONE;BRECHT G,NONE;BRECHT T,NONE;
 ORIGIN NONE,VOL 132 NO.1 PP.62-68;
 DATE 1980
 DESCRIPTORS ***** VCM;ACROOSTEOLYSIS;HUMAN;EFFECTS
 HELD TERMS FORTSCHR GEB RONTGENSTR NUKLEARMED;

862521041
 BEG52918

KWIC INDEX NUMBER 05007
REVIEW YEAR 1990

Item 128

ACCESSION NUMBER 2416
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMES DU FOIE CHEZ DES OUVRIERS AYANT ETE EN CONTACT PROLONGE AVEC LE CHLORURE DE VINYLE: EPIDEMIOLOGIE ET PROGRAMME DE RESHERCHES CHEZ LES OUVRIERS.
AUTHOR/AFFILIATION MAKK L,NONE;DELORE F,NONE;CREECH JL,BFG;
ORIGIN NONE,VOL 104 PP.1833-1835;
DATE 1975
ABSTRACT ALL OF THE 1183 EMPLOYEES OF ONE OF TWO PLANTS WERE TESTED. THREE NEW CASES OF ANGIOSARCOMA WERE DISCOVERED.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS;EPIDEMIOLOGY
HELD TERMS TOME;
KWIC INDEX NUMBER 04989
REVIEW YEAR 1990

Item 129

ACCESSION NUMBER 2415
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CHROMOSOMAL ANALYSES IN VINYL CHLORIDE EXPOSED WORKERS: RESULTS FROM ANALYSIS 18 AND 42 MONTHS AFTER AN INITIAL SAMPLING.
AUTHOR/AFFILIATION ANDERSON D,NONE;RICHARDSON CR,NONE;WEIGHT TM,NONE;PURCHASE IFH,NONE;ADAMS MGF,NONE;
ORIGIN MUTATION RESEARCH, VOL 79 PP.151-162;
DATE 1980
ABSTRACT THE AUTHORS REPORT THAT A REDUCTION IN EXPOSURE TO VCM WAS ACCOMPANIED BY A REDUCTION IN CHROMOSOMAL ABNORMALITIES IN WORKERS TO LEVELS INDISTINGUISHABLE FROM CONTROLS.
DESCRIPTORS ***** VCM;HUMAN;EFFECTS;WORKERS;MUTAGENICITY;CHROMOSOMAL ABNORMALITIES;LYMPHOCYTES
HELD TERMS CHROMOSOMES;
KWIC INDEX NUMBER 04988
REVIEW YEAR 1995

Item 130

ACCESSION NUMBER 2413
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT NEUROLOGICAL CHANGES IN VINYL CHLORIDE-EXPOSED WORKERS.
AUTHOR/AFFILIATION STIBLOVA V,NONE;LAMBL V,NONE;CHUMCAL O,NONE;KELLEROVA V,NONE;PASKOVA V,NONE;VITOVCOVA J,NONE;
ORIGIN ZLAB I,NONE;
DATE NONE,VOL 25 NO.3 PP.233-243;
ABSTRACT 1981
SOME OF THE NEUROLOGIC MANIFESTATIONS ARE CAUSED BY THE NARCOTIC ACTION OF VCM, SUCH AS CERTAIN SUBJECTIVE COMPLAINTS AND CEREBELLAR AND/OR VESTIBULOCEREBELLAR SYNDROME. THESE SYMPTOMS CAN BE TRANSITORY OR PERSISTENT. CHARACTERISTIC OF VCM ARE PERIPHERAL VASOMOTOR EFFECTS. LESIONS OF THE

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PERIPHERAL BLOOD VESSELS AND NEURONS WERE NOTED. ABNORMAL EEG WAS DISCUSSED.
DESCRIPTORS ***** VCM;ACROOSTEOLYSIS;RAYNAUD'S SYNDROME;HUMAN;EFFECTS
HELD TERMS J OF HYGIENE,EPIDEMIOLOGY,MICROBIOLOGY,IMMUNOLOGY;
KNIC INDEX NUMBER 04983
REVIEW YEAR 1990

Item 131

ACCESSION NUMBER 2412
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MUTAGENICITY AND TERATOGENICITY OF VINYL CHLORIDE MONOMER (VCM).
AUTHOR/AFFILIATION CLEMMESSEN J,NONE;
ORIGIN MUTATION RESEARCH, VOL 98 PP.97-100;
DATE 1982
DESCRIPTORS ***** VCM;EPIDEMIOLOGY;MUTAGENICITY;TERATOGENICITY;HUMAN;EFFECTS
KNIC INDEX NUMBER 04982
REVIEW YEAR 1990

Item 132

ACCESSION NUMBER 2411
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CHEMOTHERAPY OF VINYL CHLORIDE-ASSOCIATED HEPATIC ANGIOSARCOMA.
AUTHOR/AFFILIATION DANNAHER CL,NONE;TAMBURRO CH,NONE;YAM LT,NONE;
ORIGIN CANCER, VOL 47 PP.466-469;
DATE 1981
ABSTRACT SYSTEMIC CHEMOTHERAPY WAS STUDIED IN A GROUP OF FOUR PATIENTS WHO HAD VCM-ASSOCIATED ANGIOSARCOMA. FURTHER INFORMATION IS NEEDED FOR SPECIFIC RECOMMENDATIONS, BUT CHEMOTHERAPY DOES APPEAR TO BE OF VALUE.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS;CHEMOTHERAPY
KNIC INDEX NUMBER 04981
REVIEW YEAR 1990

Item 133

ACCESSION NUMBER 2410
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CANCER MORTALITY OF A GROUP OF CANADIAN WORKERS EXPOSED TO VINYL CHLORIDE MONOMER.
AUTHOR/AFFILIATION THERIAULT G,NONE;ALLARD P,NONE;
ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 23(10) PP.671-676;
DATE 1981
ABSTRACT THE MORTALITY OF 451 VCM-EXPOSED WORKERS WAS COMPARED WITH THAT OF 870 NONEXPOSED WORKERS. THE RELATIVE RISK OF DIGESTIVE CANCER WAS ELEVATED BUT ALSO HIGHER IN THE GENERAL POPULATION. NO OTHER CANCER WAS IN EXCESS.
DESCRIPTORS ***** VCM;HUMAN;EFFECTS;EPIDEMIOLOGY
KNIC INDEX NUMBER 04976
REVIEW YEAR 1991

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Item 134

ACCESSION NUMBER 2409
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE MONOMER-INDUCED DISEASE: CLINICAL, RADIOLOGICAL AND IMMUNOLOGICAL ASPECTS.
AUTHOR/AFFILIATION GRAINGER RG,NONE;WALKER AE,NONE;WARD AM,NONE;
ORIGIN NONE,CHAPTER 11 PP.191-214;
DATE 1980
DESCRIPTORS ***** VCM;HUMAN;EFFECTS
HELD TERMS INDUCED DISEASE:DRUG,IRRADIATION,OCCUPATION;
KWIC INDEX NUMBER 04973
REVIEW YEAR 1990

Item 135

ACCESSION NUMBER 2408
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT POWER CONSIDERATIONS IN EPIDEMIOLOGIC STUDIES OF VINYL CHLORIDE WORKERS.
AUTHOR/AFFILIATION BEAUMONT JJ,NONE;BRESLOW NE,NONE;
ORIGIN AMERICAN J OF EPIDEMIOLOGY,VOL 114 NO.5 PP.725-734;
DATE 1981
ABSTRACT WHEN POWER WAS TAKEN INTO CONSIDERATION, THE RESULTS FOR LIVER, LUNG, AND BRAIN CANCER WERE FOUND TO BE CONSISTENT WITH AN ETIOLOGIC ROLE FOR VCM. LUNG CANCER WAS NOT ASSOCIATED WITH VCM.
DESCRIPTORS ***** VCM;HUMAN;EFFECTS;CARCINOGENICITY;LUNG;BRAIN;LIVER;EPIDEMIOLOGY
KWIC INDEX NUMBER 04965
REVIEW YEAR 1991

Item 136

ACCESSION NUMBER 2407
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE PENIS WITH HEPATIC ANGIOMAS IN A PATIENT WITH LOW VINYL CHLORIDE EXPOSURE.
AUTHOR/AFFILIATION GHANDUR-MNAYMNEH L,NONE;GONZALEZ MS,NONE;
ORIGIN CANCER, VOL 47 PP.1318-1324;
DATE 1981
DESCRIPTORS ***** VCM;ANGIOSARCOMA;BODY PARTS;HUMAN;EFFECTS
HELD TERMS PENIS;
KWIC INDEX NUMBER 04960
REVIEW YEAR 1991

Item 137

ACCESSION NUMBER 2402
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT AN EPIDEMIOLOGICAL STUDY OF VINYL CHLORIDE EXPOSED WORKERS IN ITALY.

1769559
BIB

28521045

AUTHOR/AFFILIATION BERTZZI PA,NONE;VILLA A,NONE;FOA V,NONE;SAIA B,NONE;FABBRI L,NONE;MAPP C,NONE;MARCER C,NONE;
MANNO M,NONE;MARCHI M,NONE;MARIANI F,NONE;BOTTASSO F,NONE;
ORIGIN NONE,VOL 30 PP.379-397;
DATE 1979
ABSTRACT AMONG THE EXPOSED WORKERS WHO HAD DIED, A HIGH PERCENTAGE OF TUMORS AS CAUSE OF DEATH WAS
OBSERVED; 30% WERE OF THE LIVER AND BILIARY SYSTEM. THREE WERE ANGIOSARCOMAS OF THE LIVER.
DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;EPIDEMIOLOGY
HELD TERMS ARH.HIG.RADA.TOXSIKOL.;
KHIC INDEX NUMBER 04955
REVIEW YEAR 1991

Item 138

ACCESSION NUMBER 2400
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE MONOMER LEVELS IN EDIBLE FATS.
AUTHOR/AFFILIATION FUCHS G,NONE;GAMELL BM,NONE;ALBANUS L,NONE;SLORACH S,NONE;
ORIGIN NONE,VOL 27 NO.3 PP.134-145;
DATE 1975
ABSTRACT METHODS FOR ANALYSIS OF VCM IN EDIBLE FAT.
DESCRIPTORS ***** VCM;ANALYSIS;FAT
HELD TERMS VAR FODA;
KHIC INDEX NUMBER 04834
REVIEW YEAR 1990

Item 139

ACCESSION NUMBER 2399
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CHRONIC TOXIC LIVER DAMAGE IN THE CASE OF WORKERS IN PVC PRODUCTION.
AUTHOR/AFFILIATION MARSTELLER HJ,NONE;LELBACH HK,NONE;MULLER R,NONE;JUHE S,NONE;LANGE CE,NONE;ROHNER HG,NONE;
VELTMAN G,NONE;
ORIGIN DEUTSCH MED WSCHR,VOL 98 PP.2311-2314;
DATE 1973
ABSTRACT CLINICAL OBSERVATIONS ARE PROVIDED.
DESCRIPTORS ***** PVC;VCM;CHRONIC;HUMAN;EFFECTS;LIVER
KHIC INDEX NUMBER 04833
REVIEW YEAR 1990

Item 140

ACCESSION NUMBER 2398
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE SO-CALLED VINYL CHLORIDE DISEASE.
AUTHOR/AFFILIATION JUHE S,NONE;LANGE CE,NONE;STEIN G,NONE;VELTMAN G,NONE;
ORIGIN DEUTSCH MED WSCHR,VOL 43 PP.2034-2037;
DATE 1973

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Order number 911001-135640-MIZ -001-007

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DESCRIPTORS ***** VCM;HUMAN;EFFECTS
 KMIC INDEX NUMBER 04831
 REVIEW YEAR 1990

Item 141

ACCESSION NUMBER 2397
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT VINYL CHLORIDE AND ANGIOSARCOMA.
 AUTHOR/AFFILIATION BLOCK JB,NONE;
 ORIGIN NONE,VOL 72 NO.9 PP.483-486;
 DATE 1974
 ABSTRACT CLINICAL AND PATHOLOGICAL FINDINGS ASSOCIATED WITH ANGIOSARCOMA OF THE LIVER ARE DISCUSSED.
 DIAGNOSIS AND TREATMENT ARE CONSIDERED.
 DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS;PATHOLOGY
 HELD TERMS J OF THE KENTUCKY MEDICAL ASSOCIATION;
 KMIC INDEX NUMBER 04830
 REVIEW YEAR 1990

Item 142

ACCESSION NUMBER 2396
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT THE VALUE OF PREDICTIVE EXPERIMENTAL ENVIRONMENTAL CARCINOGENESIS AN EXAMPLE: VINYL CHLORIDE.
 AUTHOR/AFFILIATION MALTONI C,NONE;
 ORIGIN AMBIO, VOL 4(1) PP.18-23;
 DATE 1975
 ABSTRACT STUDIES SHOW THAT VCM CAUSES CANCER IN RATS, MICE, AND HAMSTERS (ANGIOSARCOMA AND POSSIBLY OTHER TUMORS).
 DESCRIPTORS ***** VCM;CARCINOGENICITY;RATS;MICE;HAMSTERS;INHALATION;ANGIOSARCOMA;CHRONIC;EFFECTS
 KMIC INDEX NUMBER 04828
 REVIEW YEAR 1990

Item 143

ACCESSION NUMBER 2395
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT HEPATIC ANGIOSARCOMA IN A VINYL CHLORIDE WORKER.
 AUTHOR/AFFILIATION SMITH PH,NONE;WILLIAMS DMJ,NONE;EVANS DMD,NONE;
 ORIGIN BULL.N.Y.ACAD.MED.,VOL 52 NO.4 PP.447-452;
 DATE 1976
 DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS
 KMIC INDEX NUMBER 04827
 REVIEW YEAR 1991

Item 144

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ACCESSION NUMBER 2394
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT NEOPLASTIC RISK AMONG VINYL CHLORIDE POLYMERIZATION WORKERS.
 AUTHOR/AFFILIATION MAXMEILER RJ, NONE; STRINGER M, NONE; FALK H, NONE; CARTER C, NONE; JONES J, NONE; MAGNER JK, NONE;
 ORIGIN NONE, PRESENTED AT NYAS CONFERENCE;
 DATE 1975, MARCH 25
 ABSTRACT PAPER PRESENTED AT NYAS CONFERENCE ON THE EXCESS CANCER INCIDENCES OF THE BRAIN, LUNG, AND LIVER OBSERVATIONS.
 DESCRIPTORS ***** VCM; PVC; HUMAN; EFFECTS; CARCINOGENICITY; EPIDEMIOLOGY
 KMIC INDEX NUMBER 04825
 REVIEW YEAR 1990

Item 145

ACCESSION NUMBER 2393
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT HEMANGIOSARCOMA OF THE LIVER, CONNECTICUT.
 AUTHOR/AFFILIATION NONE, NONE;
 ORIGIN CDC, PUBLIC HEALTH SERVICE EPI-74-104-2;
 DATE 1974, OCTOBER 9
 ABSTRACT FROM JANUARY 1935 THROUGH DECEMBER 1973, 8 CASES OF ANGIOSARCOMA OF THE LIVER WERE REPORTED TO THE CONNECTICUT TUMOR REGISTRY.
 DESCRIPTORS ***** ANGIOSARCOMA; VCM; PVC; HUMAN; EFFECTS
 KMIC INDEX NUMBER 04823
 REVIEW YEAR 1991

Item 146

ACCESSION NUMBER 2392
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT EFFECT OF OCCUPATIONAL AND NONOCCUPATIONAL FACTORS ON THE RESPIRATORY SYSTEM OF VINYL CHLORIDE AND OTHER WORKERS.
 AUTHOR/AFFILIATION GAMBLE J, NONE; LIU S, NONE; MCMICHAEL AJ, NONE; MAXMEILER RJ, NONE;
 ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 18(10) PP.659-670;
 DATE 1976
 ABSTRACT VCM HAS NOT ASSOCIATED WITH CHRONIC RESPIRATORY EFFECTS.
 DESCRIPTORS ***** VCM; PVC; EPIDEMIOLOGY; HUMAN; EFFECTS; LUNG; RESPIRATORY EFFECTS
 KMIC INDEX NUMBER 04818
 REVIEW YEAR 1990

Item 147

ACCESSION NUMBER 2391
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT RESOLUTION OF DOSE-RESPONSE TOXICITY DATA FOR CHEMICALS REQUIRING METABOLIC ACTIVATION: EXAMPLE-VINYL CHLORIDE.

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DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

Order number 911001-135640-MIZ -001-007
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AUTHOR/AFFILIATION GEHRING PJ,DOM CHEMICAL CO,NATANABE PG,SAME;PARK CN,SAME;
ORIGIN TOXICOLOGY AND APPLIED PHARMACOLOGY, VOL 44 PP.581-591;
DATE 1978

ABSTRACT ASSUMING NO THRESHOLD IN SPITE OF EVIDENCE TO THE CONTRARY, EXTRAPOLATION OF THE DATA BELOW THE RANGE OF DOSES CAUSING EXPERIMENTALLY OBSERVABLE RESPONSES PREDICTED AN INCIDENCE OF 0.01% HEPATIC ANGIOSARCOMA IN THE RATS EXPOSED TO 4.6 PPM OF VCM. THEORETICAL EXTENSION OF THE EXTRAPOLATION TO HUMANS AFTER ADJUSTING FOR METABOLIC AND BODY MASS DIFFERENCES WAS UNDERTAKEN. THE THEORETICAL EXTRAPOLATION FOR MAN EXPOSED DAILY FOR 8 HR TO 1 PPM SUGGESTS AN INCIDENCE OF 1.5 PER 100,000,000. THIS THEORETICAL INCIDENCE, ALTHOUGH A LIKELY OVERESTIMATE BECAUSE OF A LESS THAN PREDICTED INCIDENCE IN MEN EXPOSED TO 200 PPM AND GREATER, AS WELL AS EVIDENCE FOR A THRESHOLD IN RATS, IS LESS THAN THAT EXPECTED TO OCCUR SPONTANEOUSLY.

DESCRIPTORS ***** VCM;RATS;HUMAN;PHARMACOKINETICS;CARCINOGENICITY;INCIDENCE;
KMIC INDEX NUMBER 04816
REVIEW YEAR 1990

Item 148

ACCESSION NUMBER 2390
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CHARACTERISTICS OF CASES OF ANGIOSARCOMA OF THE LIVER AMONG VINYL CHLORIDE WORKERS IN THE UNITED STATES.

AUTHOR/AFFILIATION HEATH CH,CDC;FALK H,CDC;CREECH JL,BFG;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,VOL 246 PP.231-236;
DATE 1978

ABSTRACT A TOTAL OF 13 CASES OF ASL HAVE BEEN DOCUMENTED AMONG VCM WORKERS. AVERAGE LATENCY WAS 20.3 YRS.
DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;EPIDEMIOLOGY
KMIC INDEX NUMBER 04815
REVIEW YEAR 1991

Item 149

ACCESSION NUMBER 2389
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MORTALITY EXPERIENCE OF A COHORT OF VINYL CHLORIDE-POLYVINYL CHLORIDE WORKERS.
AUTHOR/AFFILIATION NICHOLSON MJ,NONE;HAYMOND EC,NONE;SEIDMAN H,NONE;SELIKOFF IJ,NONE;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,VOL 246 PP.225-230;
DATE 1978

ABSTRACT THESE DATA ARE DERIVED FROM EARLY FOLLOW-UP OF INDIVIDUALS EXPOSED FOR 5 OR MORE YEARS TO VCM IN A POLYMERIZATION FACILITY. AT LEAST 17% OF THE DEATHS THAT OCCURRED WERE CAUSALLY RELATED TO EXPOSURE TO VCM. LONGER PERIODS OF OBSERVATION ARE REQUIRED TO PROVIDE INFORMATION CONCERNING THE FULL SPECTRUM OF VCM-INDUCED MALIGNANCIES AND THEIR INCIDENCE AMONG EXPOSED WORKERS.

DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;EPIDEMIOLOGY
KMIC INDEX NUMBER 04814
REVIEW YEAR 1991

Item 150

ACCESSION NUMBER 2388

REC-52625

FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER IN THE MANUFACTURE OF POLYVINYL CHLORIDE
AUTHOR/AFFILIATION CREECH JL,BFG;JOHNSON MN,BFG;
ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 16(3) PP.150-151;
DATE 1974
ABSTRACT THREE REPORTED CASES OF ANGIOSARCOMA OF THE LIVER SERVE AS AN ALERT TO THE PROBABILITY THAT THIS
CONDITION MAY, IN SOME INSTANCES, BE CAUSALLY RELATED TO EMPLOYMENT IN THE MANUFACTURE OF
POLYVINYL CHLORIDE RESINS.
DESCRIPTORS ***** VCM;PVC;ANGIOSARCOMA;HUMAN;EFFECTS;EPIDEMIOLOGY
KMIC INDEX NUMBER 04811
REVIEW YEAR 1991

Item 151

ACCESSION NUMBER 2387
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CLINICAL AND MORPHOLOGICAL FEATURES OF HEPATIC ANGIOSARCOMA IN VINYL CHLORIDE WORKERS.
AUTHOR/AFFILIATION MARK L,NONE;DELOME F,NONE;CREECH JL,NONE;OGDEN LL,NONE;FADELL EH,NONE;SONGSTER CL,NONE;CLANTON
J,NONE;JOHNSON MN,NONE;CHRISTOPHERSON PM,NONE;
ORIGIN CANCER, VOL 37(1) PP.149-163;
DATE 1976
ABSTRACT FIFTEEN MALE WORKERS EXPOSED TO VCM DEVELOPED ANGIOSARCOMA OF THE LIVER.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS;EPIDEMIOLOGY;
HELD TERMS HEPATOMEGALY;SPLENOMEGALY;
KMIC INDEX NUMBER 04810
REVIEW YEAR 1991

Item 152

ACCESSION NUMBER 2386
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER FOLLOWING VINYL CHLORIDE EXPOSURE.
AUTHOR/AFFILIATION BLOCK JB,NONE;
ORIGIN JAMA, VOL 229 PP.53-54;
DATE 1974
ABSTRACT ANGIOSARCOMA OF THE LIVER IS REPORTED IN SIX VCM-EXPOSED WORKERS.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS;LIVER
KMIC INDEX NUMBER 04809
REVIEW YEAR 1990

Item 153

ACCESSION NUMBER 2385
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MONITORING LIVER DISORDERS IN VINYL CHLORIDE MONOMER WORKERS USING GREYSCALE ULTRASONOGRAPHY.
AUTHOR/AFFILIATION WILLIAMS DHJ,NONE;SMITH PM,NONE;TAYLOR KJM,NONE;CROSSLEY IR,NONE;DUCK BW,NONE;

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ORIGIN BRITISH J OF INDUSTRIAL MEDICINE,VOL 33 PP.152-157;
DATE 1976
ABSTRACT ULTRASONOGRAPHY SHOWS SOME ADVANTAGES.
DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;DETERMINATION;CARCINOGENICITY;LIVER
KNIC INDEX NUMBER 04794
REVIEW YEAR 1990

Item 154

ACCESSION NUMBER 2384
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT BREAST CANCER MORTALITY AMONG PVC FABRICATORS.
AUTHOR/AFFILIATION CHIAZZE L,NONE;HONG O,NONE; NICHOLS ME,NONE; FERENC LD,NONE;
ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 22(10) PP.677-679;
DATE 1980
ABSTRACT A CASE-CONTROL ANALYSIS OF BREAST CANCER DEATHS AMONG PVC FABRICATORS IS PRESENTED. THIS STUDY IS AN EXTENSION OF A CROSS-SECTIONAL MORTALITY STUDY OF DEATHS OCCURRING AMONG 17 PVC FABRICATORS (1964 TO 1973). RELATIVE RISK ESTIMATES WERE DERIVED AND TESTED. ALTHOUGH NO STATISTICALLY SIGNIFICANT RELATIVE RISKS WERE FOUND, A LEAST SIGNIFICANT RELATIVE RISK WOULD HAVE TO BE ON THE ORDER OF THREE TO ONE IN ORDER TO BE DETECTED. THERE DOES SEEM TO BE REASONABLE ASSURANCE THAT VERY LARGE INCREASES IN RISK FOR BREAST CANCER DO NOT EXIST AMONG THESE PVC FABRICATORS.
DESCRIPTORS ***** PVC;VCM;CARCINOGENICITY;HUMAN;EFFECTS;BREAST;CANCER;EPIDEMIOLOGY
KNIC INDEX NUMBER 04783
REVIEW YEAR 1991

Item 155

ACCESSION NUMBER 2383
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT REPORT ON MR. JOHN GRASSO.
AUTHOR/AFFILIATION EPSTEIN SS,NONE;
ORIGIN NONE,BY SAMUEL S. EPSTEIN;
DATE 1980
ABSTRACT TESTIMONY IN GRASSO VS BFG.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;
HELD TERMS LITIGATION;
KNIC INDEX NUMBER 04723
REVIEW YEAR 1990

Item 156

ACCESSION NUMBER 2382
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT COMPARATIVE MAMMALIAN METABOLISM OF VINYL AND VINYLIDENE CHLORIDES IN RELATION TO ONCOGENIC POTENTIAL.
AUTHOR/AFFILIATION KATHAY DE,NONE;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 21 PP.55-59;

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DATE 1977
DESCRIPTORS ***** VCM;METABOLISM
KWIC INDEX NUMBER 04718
REVIEW YEAR 1990

Item 157

ACCESSION NUMBER 2381
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE CHEMISTRY AND BIOGENESIS OF THE S-CONTAINING METABOLITES OF VINYL CHLORIDE IN RATS.
AUTHOR/AFFILIATION GREEN T,NONE;HATHWAY DE,NONE;
ORIGIN NONE,VOL 17 PP.137-150;
DATE 1977
ABSTRACT ADMINISTRATION OF SEVERAL VCM METABOLITES AND CLOSELY RELATED COMPOUNDS TO RATS SHOWS THAT CHLOROACETALDEHYDE AND S-(CARBOXYMETHYL)-CYSTEINE, BUT NOT CHLOROACETIC ACID, LIE ON A PATHWAY OR PATHWAYS CONNECTING VCM WITH THIODIGLYCOLLIC ACID.

DESCRIPTORS ***** VCM;ORAL;METABOLISM;RATS
HELP TERMS CHEMICAL-BIOLOGICAL INTERACTIONS;
KWIC INDEX NUMBER 04717
REVIEW YEAR 1990

Item 158

ACCESSION NUMBER 2380
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT THE REGULATION OF VINYL CHLORIDE: A CASE STUDY OF THE IMPACT AND IMPLICATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.

AUTHOR/AFFILIATION OUTLAM RC,NONE;PERRY CR,NONE;
ORIGIN NONE;
DATE 1977

DESCRIPTORS ***** VCM;OSHA;ANALYSIS;
HELP TERMS UNIV OF PENNSYLVANIA;
KWIC INDEX NUMBER 04707
REVIEW YEAR 1990

Item 159

ACCESSION NUMBER 2379
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EFFECTS OF VINYL CHLORIDE EXPOSURE ALONE AND IN COMBINATION WITH TRYPAN BLUE-APPLIED SYSTEMATICALLY DURING ALL THIRDS OF PREGNANCY ON THE FETUSES OF CFY RATS.

AUTHOR/AFFILIATION UNGVARY GY,NONE;HUDAK A,NONE;TATRAI E,NONE;LORINCZ M,NONE;FOLLY G,NONE;
ORIGIN NONE,VOL 11 PP.45-54;
DATE 1978

ABSTRACT VCM WAS FOUND TO CROSS THE PLACENTAL BARRIER. NO TERATOGENIC EFFECT WAS FOUND IN RATS. INCREASED FETAL MORTALITY AND EMBRYOTOXICITY WERE ONLY OBSERVED DURING THE FIRST TRIMESTER.

DESCRIPTORS ***** VCM;RATS;TERATOGENICITY;FETAL TOXICITY;EMBRYOTOXICITY;

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HELD TERMS TOXICOLOGY;PLACENTAL TRANSFER;
KWIC INDEX NUMBER 04706
REVIEW YEAR 1990

Item 160

ACCESSION NUMBER 2377
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MORTALITY EXPERIENCE OF WORKERS EXPOSED TO VINYL CHLORIDE MONOMER IN THE MANUFACTURE OF POLYVINYL CHLORIDE IN GREAT BRITAIN.
AUTHOR/AFFILIATION FOX AJ,NONE;COLLIER PF,NONE;
ORIGIN BJIM, VOL 34 PP.1-10;
DATE 1977
ABSTRACT IN A STUDY OF 7000 PVC POLYMERIZATION WORKERS FOUR CASES OF LIVER CANCER WAS FOUND. TWO WERE ANGIOSARCOMAS. ONLY LIVER CANCERS WERE ASSOCIATED WITH EXPOSURE TO VCM. THE TWO CASES OF ANGIOSARCOMA WERE IN MEN WHO HAD BEEN EXPOSED TO HIGH CONCENTRATIONS OF VCM.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;EPIDEMIOLOGY;LIVER;CANCER;HUMAN;EFFECTS
KWIC INDEX NUMBER 04646
REVIEW YEAR 1990

Item 161

ACCESSION NUMBER 2376
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT INDUCTION OF GENE MUTATIONS AND GENE CONVERSIONS BY VINYL CHLORIDE METABOLITES IN YEAST.
AUTHOR/AFFILIATION LOPRIENO N,NONE;BARALE R,NONE;BARONCELLI S,NONE;BARTSCH H,NONE;BRONZETTI G,NONE;CAMMELLINI C,NONE;CORSI C,NONE;FREZZA D,NONE;NIERI R,NONE;LEPORINI C,NONE;ROSELLINI D,NONE;ROSSI AM,NONE;
ORIGIN CANCER RESEARCH, VOL 36 PP.253-257;
DATE 1977
ABSTRACT CHLOROETHYLENE OXIDE INDUCED FORWARD MUTATION IN SCH. POMBE AND GENE REVERSION IN S. CEREVISIAE. 2-CHLOROACETALDEHYDE SHOWED ONLY FEEBLE GENETIC ACTIVITY. 2-CHLOROETHANOL WAS COMPLETELY INACTIVE.
DESCRIPTORS ***** VCM;MUTAGENICITY;CHLOROETHYLENE OXIDE;2-CHLOROACETALDEHYDE;
HELD TERMS 2-CHLOROETHANOL;YEAST;
KWIC INDEX NUMBER 04645
REVIEW YEAR 1990

Item 162

ACCESSION NUMBER 2375
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT VINYL CHLORIDE, BIRTH DEFECTS, AND FETAL MASTAGE: A CRITICAL REVIEW.
AUTHOR/AFFILIATION DOWNS TD,NONE;STALLONES RA,NONE;FRANKOWSKI RF,NONE;LABARTHE DR,NONE;
ORIGIN NONE;
DATE 1977
DESCRIPTORS ***** VCM;REPRODUCTION;BIRTH DEFECTS;TERATOLOGY;FETAL TOXICITY;HUMAN;EFFECTS
HELD TERMS SPI;SOCIETY OF PLASTICS INDUSTRY;

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Item 163

ACCESSION NUMBER 2374
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT TOXICOLOGY, CARCINOGENICITY AND REPRODUCTIVE EFFECTS OF SINGLE AND MULTIPLE EXPOSURES TO VINYL CHLORIDE IN RATS AND MICE.
AUTHOR/AFFILIATION HEHIR RM,NONE;MCNAMARA BP,NONE;MCLAUGHLIN J,NONE;HILLIGANDA,NONE;BIERBOWER G,NONE;HARDISTY JF,NONE;
ORIGIN NONE;
DATE 1980
ABSTRACT AUTHORS REPORTED AN INCREASED INCIDENCE OF PULMONARY ADENOMAS AND CARCINOMAS IN MICE EXPOSED TO 5000 AND 50,000 PPM VCM FOR ONE HOUR. ANIMALS WERE EXPOSED THEN HELD FOR ONE 18-24 MONTHS. NO TUMORIGENIC RESPONSE WAS OBSERVED IN RATS.
DESCRIPTORS ***** VCM;INHALATION;DOSE EFFECTS;CARCINOGENICITY;MICE;RATS;ADENOMA;CARCINOMA;
HELD TERMS PULMONARY ADENOMAS; CPSC;
KWIC INDEX NUMBER 04576
REVIEW YEAR 1990

Item 164

ACCESSION NUMBER 2371
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT COMPARISON OF THE FATE OF VINYL CHLORIDE FOLLOWING SINGLE AND REPEATED EXPOSURE IN RATS.
AUTHOR/AFFILIATION MATANABE PG,DOM CHEMICAL CO;ZEMPEL JA,SAME;GEHRING PJ,SAME;
ORIGIN TOXICOLOGY AND APPLIED PHARMACOLOGY, VOL 44 PP.391-399;
DATE 1978
ABSTRACT COVALENT BINDING TO MACROMOLECULES NOTED.
DESCRIPTORS ***** VCM;METABOLISM;INHALATION;SUBCHRONIC;COVALENT BINDING;
HELD TERMS MACROMOLECULES;
KWIC INDEX NUMBER 04321
REVIEW YEAR 1990

Item 165

ACCESSION NUMBER 2370
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CHROMOSOMAL ANALYSES IN VINYL CHLORIDE-EXPOSED WORKERS.
AUTHOR/AFFILIATION PURCHASE IFH,ICI;RICHARDSON CR,ICI;ANDERSON D,ICI;PADDLE GM,ICI;ADAMS MGF,ICI;
ORIGIN MUTATION RESEARCH, VOL 57 PP.325-334;
DATE 1978
ABSTRACT THERE WAS A SIGNIFICANT INCREASE IN CHROMOSOMAL ABNORMALITIES IN THE EXPOSED WORKERS WHEN COMPARED TO CONTROLS.
DESCRIPTORS ***** VCM;WORKERS;HUMAN;EFFECTS;CHROMOSOMAL ABERRATION;MUTAGENICITY
KWIC INDEX NUMBER 04320

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Item 166

ACCESSION NUMBER 2369
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HEPATO-SPLENIC ANGIOSARCOMA: PRESENTATION OF A REVIEW OF THE LITERATURE.
AUTHOR/AFFILIATION LIBESKIND M,NONE;LUGAGNE F,NONE;MALBRAN J,NONE;VILLEMANT J-F,NONE;GUYET-ROUSSET P,NONE;
ORIGIN NONE,VOL.1 PP.1027-1034;
DATE 1977
ABSTRACT THE AUTHORS REPORT THE CASE OF AN ADULT PATIENT WITH ANGIOSARCOMA OF THE LIVER AND SPLEEN.FROM THIS OBSERVATION AND THE OTHER REPORTED CASES (ABOUT 150) IN THE LITERATURE, THE AUTHORS DELIEATE THE CLINICAL FEATURES AND THE COUSE OF THIS TUMOR. VCM WAS REPORTED AS THE CAUSE IN MOST CASES BUT NOT THIS REPORTED CASE.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS;LIVER
HELD TERMS GASTROENTEROLOGY CLINICAL BIOLOGY;
KWIC INDEX NUMBER 04318
REVIEW YEAR 1990

Item 167

ACCESSION NUMBER 2368
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT LUNG CANCER AT A POLYVINYL CHLORIDE (PVC) POLYMERIZATION FACILITY.
AUTHOR/AFFILIATION FALK H,NONE;MAXMEILER RJ,NONE;HERBERT J,NONE;KUSCHNER M,NONE;AUERBACH O,NONE;MAKK L,NONE;TAMBUR
C,NONE;
ORIGIN NONE,NONE;
DATE 1979
ABSTRACT PVC IS SUGGESTED AS A POSSIBLE ETIOLOGICAL AGENT OF LUNG CANCER.
DESCRIPTORS ***** PVC;LUNG;CARCINOGENICITY;HUMAN;EFFECTS;VCM;EPIDEMIOLOGY
KWIC INDEX NUMBER 04163
REVIEW YEAR 1990

Item 168

ACCESSION NUMBER 2367
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT AN EPIDEMIOLOGIC INVESTIGATION OF AN EXCESS LUNG CANCER RISK IN A SYNTHETIC CHEMICALS PLANT.
AUTHOR/AFFILIATION MAXMEILER RJ,NIOSH;SMITH AH,UNIV OF NORTH CAROLINA;TYROLER HA,SAME;FALK H,NIOSH;
ORIGIN NONE,DUBROVNIK YUGOSLAVIA;
DATE 1978
ABSTRACT AN EXCESS LUNG CANCER RISK WAS OBSERVED IN A COHORT OF 4984 MALES EMPLOYED AT A SYNTHETIC CHEMICALS PLANT. PVC WAS SUGGESTED AS THE POSSIBLE ETIOLOGICAL AGENT.
DESCRIPTORS ***** PVC;VCM;LUNG;CARCINOGENICITY;EPIDEMIOLOGY;HUMAN;EFFECTS
HELD TERMS XIX INTERNATIONAL CONGRESS ON OCCUPATIONAL HEALTH;
KWIC INDEX NUMBER 04162
REVIEW YEAR 1991

BFG52931

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Item 169

ACCESSION NUMBER 2366
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT DEVELOPMENT OF HEPATIC ANGIOSARCOMA IN MAN INDUCED BY VINYL CHLORIDE, THOROTRAST, AND ARSENIC.
AUTHOR/AFFILIATION POPPER H,NONE;THOMAS LB,NONE;TELLES NC,NONE;FALK H,NONE;SELIKOFF IJ,NONE;
ORIGIN NONE,VOL.92 NO.2 PP.349-370;
DATE 1978
ABSTRACT EXAMPLES OF HUMAN ANGIOSARCOMA FOLLOWING EXPOSURE TO VCM, THOROTRAST, OR ARSENIC AND CASE, INCLUDING CHILDREN, OF UNKNOWN ETIOLOGY WERE STUDIED TO ESTABLISH DIAGNOSTIC CRITERIA AND TO STUDY THEIR EVOLUTION.
DESCRIPTORS ***** VCM;THOROTRAST;ARSENIC;ANGIOSARCOMA;HUMAN;EFFECTS
HELD TERMS AMERICAN J OF PATHOLOGY;
KWIC INDEX NUMBER 04146
REVIEW YEAR 1991

Item 170

ACCESSION NUMBER 2365
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EPIDEMIOLOGICAL STUDY OF THE MORTALITY OF WORKERS EXPOSED TO VINYL CHLORIDE (VC) IN THE FRG.
AUTHOR/AFFILIATION REINL H,NONE;WEBER H,NONE;GREISER E,NONE;
ORIGIN UNKNOWN
DATE 1977
ABSTRACT GERMAN EPIDEMIOLOGY STUDY SHOWS SIGNIFICANTLY ELEVATED SMR'S FOR MANY DISEASES INCLUDING STOMACH, LIVER, LYMPH SYSTEM AND BLOOD.
DESCRIPTORS ***** VCM;HUMAN;EFFECTS;CHRONIC;CARCINOGENICITY
KWIC INDEX NUMBER 04145
REVIEW YEAR 1991

Item 171

ACCESSION NUMBER 2364
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT FATE OF 14C-VINYL CHLORIDE FOLLOWING INHALATION EXPOSURE IN RATS.
AUTHOR/AFFILIATION HATANABE PG,DOW CHEMICAL CO;MCGOWEN GR,SAME;MADRID EO,SAME;GEHRING PJ,SAME;SAME;
ORIGIN TOXICOLOGY AND APPLIED PHARMACOLOGY, VOL 37 PP.49-59;
DATE 1976
DESCRIPTORS ***** VCM;METABOLISM;INHALATION;RATS;DISPOSITION;
HELD TERMS METABOLIC FATE;DISTRIBUTION;
KWIC INDEX NUMBER 04125
REVIEW YEAR 1990

Item 172

ACCESSION NUMBER 2361

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FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EXPERIMENTAL STUDIES ON THE CHRONIC TOXIC EFFECTS OF VINYL CHLORIDE IN RATS.
AUTHOR/AFFILIATION SOKAL JA,NONE;BARANSKI B,NONE;MAJKA J,NONE;ROLECKI R,NONE;MATYCH S,NONE;OLCZAK G,NONE;PALUS J,
NONE;STETKIEWICZ J,NONE;STETKIEWICZ I,NONE;WROBLEWSKA K,NONE;
ORIGIN UNKNOWN, PP.539;
DATE 1970
ABSTRACT EXPOSURE OF RATS TO LEVELS OF VCM AS HIGH AS 20,000 PPM FOR 10 MONTHS RESULTED IN BODY WT
DEPRESSION, ORGAN WEIGHT INCREASES, BLOOD CHEMISTRY CHANGES, AND MORPHOLOGICAL CHANGES IN THE
LIVER.
DESCRIPTORS ***** VCM;CHRONIC;INHALATION;RATS
KWIC INDEX NUMBER 04058
REVIEW YEAR 1990

Item 173

ACCESSION NUMBER 2360
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER IN PVC FABRICATORS.
AUTHOR/AFFILIATION BAXTER PJ,NONE;FOX AJ,NONE;
ORIGIN THE LANCET, PP.245-246;
DATE 1976, JANUARY 31
DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;ANGIOSARCOMA;EPIDEMIOLOGY
KWIC INDEX NUMBER 04020
REVIEW YEAR 1991

Item 174

ACCESSION NUMBER 2359
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CONGENITAL CENTRAL NERVOUS SYSTEM MALFORMATIONS AND VINYL CHLORIDE MONOMER EXPOSURE: A COMMUNITY
STUDY.
AUTHOR/AFFILIATION EDMONDS LD,NONE;ANDERSON CE,NONE;FLYNT JH,NONE;JAMES LM,NONE;
ORIGIN TERATOLOGY ,VOL 17 PP.137-142;
DATE 1978
ABSTRACT INCIDENCE RATES FOR CNS MALFORMATIONS IN INFANTS BORN IN KANAWHA COUNTY, WEST VIRGINIA,
1970-1974, WERE SIGNIFICANTLY HIGHER THAN COMPARABLE US RATES. NO RELATIONSHIP WITH PVC
MANUFACTURE WAS FOUND.
DESCRIPTORS ***** VCM;BIRTH DEFECTS;TERATOGENICITY;HUMAN;EFFECTS;EPIDEMIOLOGY
KWIC INDEX NUMBER 04004
REVIEW YEAR 1990

Item 175

ACCESSION NUMBER 2358
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT A STATISTICAL ASSESSMENT OF THE QUANTITATIVE UPTAKE OF VINYL CHLORIDE MONOMER FROM AQUEOUS

BFG52933

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SOLUTION.
 AUTHOR/AFFILIATION WITHEY JR,NONE;COLLINS BT,NONE;
 ORIGIN J OF TOXICOLOGY AND ENVIRONMENTAL HEALTH,VOL.2 PP.311-321;
 DATE 1976
 ABSTRACT IT HAS CONCLUDED THAT IF THE TOTAL DAILY LIQUID INTAKE CONTAINED 20 PPM OF VCM THEN THE AREA
 GENERATED UNDER THE BLOOD LEVEL-TIME CURVE, FOR RATS, WOULD BE EQUIVALENT TO AN INHALATION
 EXPOSURE OF ABOUT 2 PPM FOR 24-HR.
 DESCRIPTORS ***** VCM;ANALYSIS;RISK ASSESSMENT;DRINKING WATER
 KWIC INDEX NUMBER 03995
 REVIEW YEAR 1991

Item 176

ACCESSION NUMBER 2356
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT PULMONARY TUMORS INDUCED IN MICE BY VINYL CHLORIDE MONOMER.
 AUTHOR/AFFILIATION SUZUKI Y,NONE;
 ORIGIN ENVIRONMENTAL RESEARCH, VOL 16 PP.285-301;
 DATE 1978
 ABSTRACT NEOPLASTIC EFFECTS OF VCM WERE STUDIED IN LUNGS OF 27 MICE EXPOSED TO VCM AT 2500 AND 6000 PPM
 FOR 5 AND 6 MONTHS. PULMONARY TUMORS WERE OBSERVED IN 26 OF 27 EXPERIMENTAL ANIMALS.
 DESCRIPTORS ***** VCM;INHALATION;CHRONIC;CARCINOGENICITY;MICE;LUNGS;TUMORS
 KWIC INDEX NUMBER 03959
 REVIEW YEAR 1990

Item 177

ACCESSION NUMBER 2355
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT SUMMARY OF THE STUDIES CONDUCTED ON THE PHARMACOKINETICS/METABOLISM OF VINYL CHLORIDE IN RATS.
 AUTHOR/AFFILIATION WATANABE PG,DOM CHEMICAL CO;HEFNER RE,SAME;ZEMPEL JA,SAME;PEGG DG,SAME;PARK CN,SAME;GEHRING PJ,
 SAME;
 ORIGIN DOM CHEMICAL CO,TO CMA;
 DATE 1977, MAY 31
 ABSTRACT PRELIMINARY STUDIES ON THE FATE OF INHALED VCM INDICATED TWO IMPORTANT POINTS: 1) VCM WAS
 METABOLIZED EXTENSIVELY IN VIVO AND 2) THE METABOLISM OF VCM WAS SATURATED AT HIGH EXPOSURE
 CONCENTRATIONS.
 DESCRIPTORS ***** VCM;METABOLISM;RATS;PHARMACOKINETICS
 KWIC INDEX NUMBER 03940
 REVIEW YEAR 1990

Item 178

ACCESSION NUMBER 2354
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT URINARY GLYCOSAMINOGLYCAN PATTERNS IN ANGIOSARCOMA OF THE LIVER.
 AUTHOR/AFFILIATION CURRAN KL,UNIV OF LOUISVILLE;KUPCHELLA CE,SAME;TAMBURO CH,SAME;

BFG5293A

22521058

ORIGIN CANCER, VOL 40 PP.3050-3053;
DATE 1977
ABSTRACT GLYCOSAMINOGLYCANS EXTRACTED FROM 24-HOUR URINE SPECIMENS FROM PATIENTS WITH HEPATIC
ANGIOSARCOMA AND FROM NORMAL CONTROLS WERE SEPARATED AS CETYLPYRIDINIUM COMPLEXES INTO HYALURONIC
ACID, CHONDROITIN SULFATE, AND HEPARIN FRACTIONS, THEN FURTHER SEPARATED AND CHARACTERIZED. THE
CHROMATOGRAPHIC PATTERN OF THE URINARY CHONDROITIN SULFATE FRACTION IN PATIENTS WITH ANGIOSARCOMA
OF THE LIVER DIFFERED FROM THOSE OF THE CONTROLS IN THAT THERE WAS A RELATIVE INCREASE IN THE
TOTAL AMOUNT OF URONIC ACID IN A HYALURONADASE-RESISTANT FRACTION AND A DECREASE IN A FRACTION
SUSCEPTIBLE TO HYALURONIDASE DIGESTION.

DESCRIPTORS ***** VCM;ANGIOSARCOMA
KWIC INDEX NUMBER 03938
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ACCESSION NUMBER 2353
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE EFFECTS OF MATERNALLY INHALED VINYL CHLORIDE ON EMBRYONAL AND FETAL DEVELOPMENT IN MICE,
RATS, AND RABBITS.
AUTHOR/AFFILIATION JOHN JA,DOM CHEMICAL CO;SMITH FA,SAME;LEONG BKJ,SAME;SCHWETZ BA,SAME;
ORIGIN TOXICOLOGY AND APPLIED PHARMACOLOGY, VOL 39(3) PP.497513;
DATE 1977
ABSTRACT NO EMBRYO OR FETAL TOXICITY NOR TERATOGENIC EFFECTS WERE OBSERVED IN MICE, RATS, AND RABBITS
EXPOSED TO VCM VIA INHALATION. ETHANOL INHANCED TOXICITY.

DESCRIPTORS ***** VCM;RATS;MICE;RABBITS;TERATOGENICITY;FETAL TOXICITY;INHALATION
KWIC INDEX NUMBER 03901
REVIEW YEAR 1990

Item 180

ACCESSION NUMBER 2352
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER: AN EPIDEMIOLOGY SURVEY.
AUTHOR/AFFILIATION BRADY J,NONE;LIBERATORE F,NONE;HARPER P,NONE;GREENHALD P,NONE;BURNETT M,NONE;DAVIES JNP,NONE;
BISHOP M,NONE;POLAN A,NONE;VIANNA N,NONE;
ORIGIN J OF NCI,VOL 59 NO.5 PP.1383-1385;
DATE 1977
ABSTRACT FROM 1970 TO 1975 THE ANNUAL INCIDENCE RATE FOR ANGIOSARCOMA OF THE LIVER AMONG RESIDENTS OF NEW
YORK STATE (EXCLUDING NYC) WAS 0.25 PER MILLION. A CAS-CONTROL STUDY INDICATED THAT DIRECT
EXPOSURE TO ARSENIC, VCM, AND THORIUM DIOXIDE WAS A SIGNIFICANTLY IMPORTANT FACTOR IN THE
ETIOLOGY OF THIS DISEASE. DIRECT EXPOSURE TO THESE CHEMICALS COULD NOT BE DEMONSTRATED FOR 19 OF
THE 26 PATIENTS. THE FACT THAT 5 OF THESE PATIENTS LIVED NEARER TO VCM FABRICATION OR
POLYMERIZATION PLANTS THAN DID THEIR MATCHING CONTROLS LENT SOME SUPPORT TO THE HYPOTHESIS THAT
INDIRECT MODES OF EXPOSURE, NOT SPECIFICALLY RELATED TO OCCUPATION, MIGHT BE IMPORTANT
ETIOLOGICALLY.

DESCRIPTORS ***** VCM;THOROTRAST;ARSENIC;HUMAN;EFFECTS;EPIDEMIOLOGY;ANGIOSARCOMA
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Item 181

ACCESSION NUMBER 2351
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MORTALITY AMONG EMPLOYEES OF PVC FABRICATORS.
AUTHOR/AFFILIATION CHIAZZE L,NONE;NICHOLS ME,NONE;WONG O,NONE;
ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 19(9) PP.623-628;
DATE 1977
ABSTRACT A CROSS-SECTIONAL MORTALITY STUDY OF 4341 DEATHS OCCURRING AMONG CURRENT AND FORMER EMPLOYEES OF 17 PVC FABRICATORS DURING 1964-1973 IS PRESENTED. AMONG THE WHITE EMPLOYEES, THERE APPEARS TO BE AN EXCESS IN TOTAL CANCER MORTALITY, PARTICULARLY THAT OF THE DIGESTIVE SYSTEM. OBSERVED DEATHS WERE FOUND TO EXCEED THE EXPECTED IN CANCERS OF THE BREAST AND URINARY ORGANS AMONG WHITE FEMALES. DEFICIT MORTALITY WAS OBSERVED IN CIRRHOSIS OF THE LIVER AMONG WHITE MALES AND FEMALES.

DESCRIPTORS ***** PVC;VCM;HUMAN;EFFECTS;EPIDEMIOLOGY;CARCINOGENICITY;ANGIOSARCOMA
KWIC INDEX NUMBER 03887
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Item 182

ACCESSION NUMBER 2348
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SMOKING AND OCCUPATIONAL CANCERS.
AUTHOR/AFFILIATION HOFFMANN D,NONE;WYNDER EL,NONE;
ORIGIN PREVENTIVE MEDICINE, VOL 5(2) PP.245-261;
DATE 1976
ABSTRACT A REVIEW OF THE LITERATURE SHOWS A LACK OF EPIDEMIOLOGICAL DATA FOR THE JOINT ACTION OF OCCUPATIONAL CARCINOGENS (NICKEL, COKE OVEN, GAS WORKERS, VCM, HALO ETHERS, BLADDER CARCINOGENS) AND TOBACCO SMOKE. SYNERGISTIC AND/OR ADDITIVE EFFECTS HAVE BEEN ESTABLISHED FOR RADON DAUGHTERS AND SOME FORMS OF ASBESTOS.

DESCRIPTORS ***** SMOKE;CANCER;NICKLE;GAS;WORKERS;VINYL CHLORIDE;BLADDER;CARCINOGEN;ETHERS;
HELD TERMS COKE OVEN;HALO ETHERS;SYNERGISM;
KWIC INDEX NUMBER 03721
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ACCESSION NUMBER 2346
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CARCINOGENICITY OF VINYL CHLORIDE AND VINYLIDENE CHLORIDE.
AUTHOR/AFFILIATION LEE CC,NONE;BHANDARI JC,NONE;WINSTON JM,NONE;HOUSE MB,NONE;DIXON RL,NONE;WOODS JS,NONE;
ORIGIN J OF TOXICOLOGY AND ENVIRONMENTAL HEALTH, VOL 4 PP.15-30;
DATE 1978
ABSTRACT EXPOSURE OF MICE TO 50, 250, OR 1000 PPM OF VCM 6H/D,5D/WK FOR 12 MONTHS PRODUCED A HIGH INCIDENCE OF BRONCHIOLALVEOLAR ADENOMA, MAMMARY GLAND TUMORS, AND HEMANGIOSARCOMAS. EXPOSURE TO 55 PPM OF VDC CAUSED HEMANGIOSARCOMAS AND BRONCHIOLALVEOLAR ADENOMAS.

DESCRIPTORS ***** VCM;VDC;CARCINOGENICITY;RATS;INHALATION

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Item 184

ACCESSION NUMBER 2345
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ANGIOSARCOMA OF THE LIVER IN VINYL CHLORIDE/POLYVINYL CHLORIDE WORKERS.
AUTHOR/AFFILIATION SPIRTAS R,NIOSH;KAMINSKI R,NIOSH;
ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 20 PP.427-429;
DATE 1978
ABSTRACT THIS REPORT PROVIDES DETAILS ON 64 CASES OF ANGIOSARCOMA AMONG VCM POLYMERIZATION WORKERS AND
UPDATES THE PREVIOUS REPORT OF 26 CASES (JOM 16:809,1974).
DESCRIPTORS ***** VCM;ANGIOSARCOMA;LIVER;HUMAN;EFFECTS
KWIC INDEX NUMBER 03665
REVIEW YEAR 1990

Item 185

ACCESSION NUMBER 2344
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT VINYL CHLORIDE AND HUMAN REPRODUCTION.
AUTHOR/AFFILIATION MACMAHON B,HARVARD UNIV;
ORIGIN NONE;
DATE 1977, AUGUST 11
DESCRIPTORS ***** VCM;REPRODUCTION;BIRTH DEFECTS;TERATOGENICITY;HUMAN;EFFECT
HELD TERMS FETAL LOSS;
KWIC INDEX NUMBER 03648
REVIEW YEAR 1990

Item 186

ACCESSION NUMBER 2340
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EFFECTS OF VINYL CHLORIDE IN MAN A CYTOGENETIC FOLLOW-UP STUDY.
AUTHOR/AFFILIATION HANSTEEN I,UNKNOWN;HILLESTAD L,UNKNOWN;THIS-EVENSEN E,UNKNOWN;HELDAAS SS,UNKNOWN;
ORIGIN MUTATION RESEARCH, VOL 51 PP.271-278;
DATE 1978
ABSTRACT THE MEAN CHROMOSOME-BREAKAGE FREQUENCY FOR THE WORKERS(3.41%) WAS SIGNIFICANTLY HIGHER THAN FOR
THE CONTROLS (1.79%) IN THE FIRST INVESTIGATION. IN THE REPEATED STUDY NO DIFFERENCE WAS FOUND IN
MEAN CHROMOSOME-BREAKAGE FREQUENCY BETWEEN THE WORKERS AND THEIR MATCHED CONTROLS. NEITHER WAS
THERE ANY DIFFERENCE BETWEEN THESE BREAKAGE FREQUENCIES AND THE BREAKAGE FREQUENCY FOR THE
PREVIOUS CONTROL GROUP. THESE RESULTS MIGHT INDICATE A RELATIONSHIP BETWEEN THE REDUCTION IN
EXPOSURE TO VCM AND THE NORMALIZED CHROMOSOME-BREAKAGE FREQUENCY. SISTER-CHROMATID EXCHANGES WERE
STUDIED FOR 16 WORKERS WITH MATCHED CONTROLS IN THE REPEATED STUDY. A MEAN OF 7.6 SCES PER CELL
WAS FOUND FOR BOTH WORKERS AND CONTROLS. BONE-MARROW SAMPLES FROM 4 WORKERS WERE STUDIED IN THE
FIRST INVESTIGATION. THE MEAN CHROMOSOME-BREAKAGE FREQUENCY WAS HIGHER IN THE BONE MARROWS (4.2%)

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THAN THAT REPORTED FOR NORMAL BONE MARROWS (0.2, 0.4, 1.7%) AND HIGHER THAN FOR THE CORRESPONDING LYMPHOCYTE CULTURES.

DESCRIPTORS ***** VCM;HUMAN;EFFECTS;CHROMOSOMAL ABERRATION;CHROMOSOMAL ABNORMALITIES;MUTAGENICITY
 REVIEW YEAR 1990

Item 187

ACCESSION NUMBER 2338
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT PATHOLOGY OF VINYL CHLORIDE
 AUTHOR/AFFILIATION VIOLA PL,UNKNOWN;
 ORIGIN NONE,VOL 61 NO.3 PP.1-7;
 DATE 1970
 ABSTRACT

THE RESULTS OF THIS INVESTIGATION SHOW THAT ANIMALS EXPOSED TO VCM MAY SHOW DEGENERATION OF THE SKELETON AND CONNECTIVE TISSUE SIMILAR TO HUMAN ACROOSTEOLYSIS OF THE HAND. DEGENERATIVE PROCESSES OF THE PARENCHYMA WERE OBSERVED IN THE BRAIN, LIVER, AND KIDNEYS.

DESCRIPTORS ***** VCM;PATHOLOGY;CHRONIC;EFFECTS;INHALATION;RATS;BONES;KIDNEY;LIVER;BRAIN;ACROOSTEOLYSIS
 HELD TERMS LA MEDICINA DEL LAVORO;
 REVIEW YEAR 1990

Item 188

ACCESSION NUMBER 2287
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT EXCERPT FROM LETTER WRITTEN BY DR E MASTROMATTEO, DIVISION OF INDUSTRIAL HYGIENE, DEPARTMENT OF HEALTH, PROVINCE OF ONTARIO, DATED OCTOBER 13, 1959, REGARDING VINYL CHLORIDE EXPERIMENTS ON SMALL ANIMALS.
 AUTHOR/AFFILIATION MASTROMATTEO E,NONE;
 ORIGIN NONE,TO CROWN ATTORNEY;
 DATE 1959, OCTOBER 13
 ABSTRACT THIS SUMMARY REPORTS THE RESULTS OF 30 MINUTE EXPOSURES TO RODENTS.
 DESCRIPTORS ***** MICE;RATS;GUINEA PIGS;EFFECTS;ACUTE;VCM;INHALATION
 KWIC INDEX NUMBER 02721
 REVIEW YEAR 1990

Item 189

ACCESSION NUMBER 2286
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT ACCIDENTAL POISONING BY VINYL CHLORIDE: REPORT OF TWO CASES.
 AUTHOR/AFFILIATION DANZIGER H,UNKNOWN;
 ORIGIN NONE,VOL 82 PP.828-830;
 DATE 1960, APRIL 16
 ABSTRACT ACUTE INHALATION EFFECTS FORM VCM NOTED.
 DESCRIPTORS ***** VCM;HUMAN;EFFECTS;INHALATION;ACUTE
 HELD TERMS CANAD.M.A.J;CANADIAN MED ASSOC J;
 KWIC INDEX NUMBER 02715

BFG52938

22521062

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Item 190

ACCESSION NUMBER 2284
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT RISK-BENEFIT ANALYSIS FOR TOXIC CHEMICALS; VINYL CHLORIDE.
AUTHOR/AFFILIATION WILSON R, HARVARD UNIV;
ORIGIN HARVARD UNIV;
DATE 1976, AUGUST 25
DESCRIPTORS ***** VCM, RISK ASSESSMENT; ANALYSIS; HUMAN; EFFECTS; CARCINOGENICITY
KWIC INDEX NUMBER 02608
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ACCESSION NUMBER 2283
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT COMMISSION DIRECTIVE OF 29 APRIL 1981 LAYING DOWN THE COMMUNITY METHOD OF ANALYSIS FOR THE
OFFICIAL CONTROL OF VINYL CHLORIDE RELEASED BY MATERIALS AND ARTICLES INTO FOODSTUFFS.
AUTHOR/AFFILIATION UNKNOWN, UNKNOWN;
ORIGIN NONE, VOL 24 PP. 6-11;
DATE 1981, JUNE 24
DESCRIPTORS ***** VCM; ANALYSIS;
HELD TERMS OFFICIAL JOURNAL OF EEC; FOODSTUFFS;
KWIC INDEX NUMBER 02583
REVIEW YEAR 1990

Item 192

ACCESSION NUMBER 2281
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT FATE OF 14C-VINYL CHLORIDE AFTER SINGLE ORAL ADMINISTRATION IN RATS.
AUTHOR/AFFILIATION WATANABE PG, DOW CHEMICAL CO; MCGOWAN GR, SAME; GEHRING PJ, SAME;
ORIGIN TOX AND APPLIED, VOL 36 PP. 339-352;
DATE 1976
ABSTRACT THE FATE OF VCM FOLLOWING AN ORAL DOSE BETWEEN 1 AND 100 MG/KG WAS CLEARLY DOSE-DEPENDENT.
CONSISTENT WITH OUR PREVIOUS STUDIES ON THE FATE OF VCM FOLLOWING INHALATION EXPOSURE IN RATS,
THE METABOLISM OF VCM APPEARS TO BE A SATURABLE PROCESS.
DESCRIPTORS ***** RATS; ORAL; VCM; METABOLISM;
HELD TERMS DISPOSITION; METABOLIC FATE;
KWIC INDEX NUMBER 02579
REVIEW YEAR 1990

Item 193

ACCESSION NUMBER 2278

BFG52939

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

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FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ELEVATED CEA (CARCINO-EMBRYONIC ANTIGEN) LEVELS IN POLYVINYL CHLORIDE WORKERS.
AUTHOR/AFFILIATION PAGE M,UNKNOWN;THERIAULT L,UNKNOWN;DELORME F,UNKNOWN;
ORIGIN NONE,VOL 25 PP.279;
DATE 1976
ABSTRACT PLASMA CEA TITER WAS MEASURED IN 200 PVC WORKERS. A POSITIVE TEST WAS OBTAINED IN 48.3% COMPARED TO 9.2% IN A NORMAL HEALTHY POPULATION.
DESCRIPTORS ***** PVC;VCM;CANCER;DETERMINATION;HUMAN;EFFECT;
HELD TERMS BIOMEDICINE;
KMIC INDEX NUMBER 02576
REVIEW YEAR 1990

Item 194

ACCESSION NUMBER 2276
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TEN CASES OF ANGIOSARCOMA OF THE LIVER IN SHAMINIGAN, QUEBEC.
AUTHOR/AFFILIATION DELORME F,UNKNOWN;THERIAULT G,UNKNOWN;
ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 20 PP.338-340;
DATE 1978, MAY
ABSTRACT TEN CASES OF ANGIOSARCOMA HAVE BEEN DIAGNOSED IN SHAMINIGAN SINCE 1955. ALL WORKED IN A VCM POLYMERIZATION PLANT. CIGARETTES AND ALOCOHOL WERE NOT ASSOCIATED WITH THE TUMORS. ANGIOSARCOMA IS ACCOMPANIED BY FIBROSIS IN THE LIVER AND MAY PRECEDE ITS APPEARANCE.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMAN;EFFECTS;EPIDEMIOLOGY;LIVER;FIBROSIS
KMIC INDEX NUMBER 02547
REVIEW YEAR 1990

Item 195

ACCESSION NUMBER 2275
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE EXPOSURE IN A CONTROLLED INDUSTRIAL ENVIRONMENT: A LONG-TERM MORTALITY EXPERIENCE IN 594 EMPLOYEES.
AUTHOR/AFFILIATION OTT MG,DOW CHEMICAL CO;LANGNER RR,SAME;HOLDER BB,SAME;
ORIGIN ARCH ENVIRON HEALTH, VOL 30 PP.333-339;
DATE 1975, JULY
ABSTRACT A MORTALITY STUDY OF 594 VCM-EXPOSED EMPLOYEES WAS CONDUCTED. NO ANGIOSARCOMAS OR DEATHS FROM LIVER DISEASE WAS FOUND.
DESCRIPTORS ***** VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;LIVER
KMIC INDEX NUMBER 02540
REVIEW YEAR 1990

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ACCESSION NUMBER 2274
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION

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TITLE OR SUBJECT HEPATIC ANGIOSARCOMA ASSOCIATED WITH ANDROGENIC-ANABOLIC STEROIDS.
AUTHOR/AFFILIATION FALK H,CDC;POPPER H,NCI;THOMAS LB,CITY UNIV OF NEW YORK;ISAK KG,NONE;
ORIGIN NONE,PP.1120-1123;
DATE 1979, NOVEMBER 24
ABSTRACT A STUDY OF DEATHS FROM HEPATIC ANGIOSARCOMA (HAS) IN THE US SHOWED THAT DURING 1964-74 THERE WERE 168 SUCH CASES, OF WHICH 37 (22%) WERE ASSOCIATED WITH VCM, THOROTRAST, AND INORGANIC ARSENIC AND 4 (3.1%) OF THE REMAINING 131 CASES WITH THE USE OF ANDROGENIC-ANABOLIC STEROIDS.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;LIVER;HUMAN;EFFECTS;EPIDEMIOLOGY;THOROTRAST;
HELD TERMS STERIODS;INORGANIC ARSENIC;LANCET;STERIODS;WALTER REED ARMY MEDICAL CENTER;
KWIC INDEX NUMBER 02527
REVIEW YEAR 1990

Item 197

ACCESSION NUMBER 2273
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT QUANTITATIVE RISK ASSESSMENT FOR COMMUNITY EXPOSURE TO VINYL CHLORIDE.
AUTHOR/AFFILIATION KUZMACK AM,EPA;MCGAUGHY RE,EPA;
ORIGIN EPA;
DATE 1975, DECEMBER 5
ABSTRACT IT WAS FOUND, USING ANIMAL DATA AND USING A LINEAR DOSE-RESPONSE MODEL EXTRAPOLATING TO ZERO, THAT THE PROBABILITY OF GETTING ANGIOSARCOMA DUE TO A YEAR OF CONTINUOUS EXPOSURE TO VCM IS 71 CASES PER YEAR PER MILLION PEOPLE EXPOSED. THE CORRESPONDING PROBABILITY OF GETTING CANCER OF ALL SITES IS 150 CASES PER YEAR OF CONTINUOUS EXPOSURE PER PPM OF VCM PER MILLION PEOPLE. ON THIS BASIS THE PROBABILITY OF GETTING LIVER ANGIOSARCOMA IN WORKERS EXPOSED TO 350 PPM FOR 7 HOURS PER DAY, 5 DAYS PER WEEK WOULD BE 0.0052 PER PERSON PER YEAR OF EXPOSURE. FROM EPIDEMIOLOGY STUDIES IT WAS ESTIMATED THAT THE PROBABILITY OF GETTING ANGIOSARCOMA AT SOME TIME IN A WORKERS LIFE PER YEAR OF EXPOSURE IS 0.0031. IT IS CONCLUDED THAT THE DIFFERENCE IN RISK ESTIMATES BETWEEN ANIMAL AND HUMAN DATA IS INDISTINGUISHABLE.
DESCRIPTORS ***** VCM;CARCINOGENICITY;ANGIOSARCOMA;HUMAN;EFFECTS;RISK ASSESSMENT
KWIC INDEX NUMBER 02516
REVIEW YEAR 1990

Item 198

ACCESSION NUMBER 2272
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT REPORT ON A MORTALITY STUDY COVERING EMPLOYEES OF PVC FABRICATORS.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE;
DATE 1976, FEBRUARY
DESCRIPTORS ***** PVC;VCM;HUMAN;EFFECTS;EPIDEMIOLOGY;
HELD TERMS ORGANIZATION RESOURCES COUNSELORS INC;FABRICATORS;
KWIC INDEX NUMBER 02431
REVIEW YEAR 1991

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ACCESSION NUMBER 2271
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MORTALITY STUDY OF WORKERS IN THE MANUFACTURE OF VINYL CHLORIDE AND ITS POLYMERS.
AUTHOR/AFFILIATION TABERSHAW JR,NONE;GAFFY MR,SAME;TABERSHAW-COOPER ASSOC;
ORIGIN J OF OCCUPATIONAL MEDICINE, VOL 16(6) PP.509-518;
DATE 1974, AUGUST
ABSTRACT THIS MORTALITY STUDY OF 8384 MEN DEMONSTRATED THAT CANCERS OF THE DIGESTIVE SYSTEM (ANGIOSARCOMAS), RESPIRATORY SYSTEM, BRAIN, AND CANCERS OF UNKNOWN SITE, AS WELL AS LYMPHOMAS, OCCURRED MORE OFTEN THAN EXPECTED IN THOSE INDIVIDUALS WITH THE GREATEST ESTIMATED EXPOSURE. EXCESS CANCERS OF THE BUCCAL CAVITY AND PHARYNX WERE INVERSELY RELATED TO EXPOSURE.

DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECT;EPIDEMIOLOGY;CANCER;RESPIRATORY SYSTEM;BRAIN;ANGIOSARCOMA
HELD TERMS TABERSHAW-COOPER ASSOCIATES INC; DIGESTIVE SYSTEM;
KWIC INDEX NUMBER 02376
REVIEW YEAR 1990

Item 200

ACCESSION NUMBER 2260
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MUTAGENIC AND CARCINOGENIC EFFECTS OF VINYL CHLORIDE.
AUTHOR/AFFILIATION BARTSCH H,IARC;MONTESANO R,IARC;
ORIGIN MUTATION RESEARCH, VOL 32 PP.93-114;
DATE 1975
ABSTRACT A REVIEW OF CARCINOGENICITY, MUTAGENICITY, METABOLISM, AND NON-NEOPLASTIC EFFECTS OF VCM.
DESCRIPTORS ***** VCM;CARCINOGENICITY;MUTAGENICITY;METABOLISM;ACROOSTEOLYSIS
KWIC INDEX NUMBER 02340
REVIEW YEAR 1990

Item 201

ACCESSION NUMBER 2259
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE DEPENDENT MUTAGENESIS:EFFECTS OF LIVER EXTRACTS AND FREE RADICALS.
AUTHOR/AFFILIATION GARRO JB,CITY UNIV OF NEW YORK;GUTTENPLAN JB,CITY UNIV OF NEW YORK;
ORIGIN MUTATION RESEARCH, VOL 36 PP.81-88;
DATE 1976
ABSTRACT VCM MUTAGENICITY IN S. TYPHIMURIUM WAS ENHANCED BY LIVER EXTRACTS AND RIBOFLAVIN IN THE PRESENCE OF SUNLIGHT.

DESCRIPTORS ***** VCM;MUTAGENICITY;IN VITRO;LIVER;
HELD TERMS ACTIVATION;RIBOFLAVIN;SUNLIGHT;
KWIC INDEX NUMBER 02339
REVIEW YEAR 1990

Item 202

ACCESSION NUMBER 2257
FILE LOCATION GEN

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DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PULMONARY FUNCTION DEFECTS IN NONSMOKING VINYL CHLORIDE WORKERS.
AUTHOR/AFFILIATION MILLER A,CITY UNIV OF NEW YORK;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 11 PP.247-250(ON SHELF);
DATE 1975
DESCRIPTORS ***** VCM;PVC;HUMANS;EFFECTS;PULMONARY FUNCTION
REVIEW YEAR 1995

Item 203

ACCESSION NUMBER 2256
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT BIOCHEMICAL TOXICOLOGY OF UNSATURATED HALOGENATED MONOMERS.
AUTHOR/AFFILIATION JAEGER RJ,HARVARD UNIV;CONOLLY RB,SAME;REYNOLDS ES,SAME;MURPHY SD,SAME;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 11 PP.121-128(ON SHELF);
DATE 1975
DESCRIPTORS ***** VCM;1,1-DICHLOROETHYLENE;RATS;ACUTE;LIVER;
HELD TERMS HEPATOTOXICITY;ENZYMES;1,1-DIBROMOETHYLENE; 2-CHLORO-1,3-BUTADIENE;
REVIEW YEAR 1995

Item 204

ACCESSION NUMBER 2255
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PRELIMINARY STUDIES ON THE FATE OF INHALED VINYL CHLORIDE MONOMER (VCM) IN RATS.
AUTHOR/AFFILIATION HEFNER RE,DOW CHEMICAL CO;MATANABE PG,SAME;GEHRING PJ,SAME;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 11 P.85-95(ON SHELF);
DATE 1975
ABSTRACT CONSIDERING THE RESULTS IN TOTO, IT IS HYPOTHESIZED THAT VCM IS READILY AND EXTENSIVELY METABOLIZED. METABOLISM VIA THE PRIMARY PATHWAY, POSTULATED TO INVOLVE ALCOHOL DEHYDROGENASE, IS SHAMPPED BY EXPOSURES TO CONCENTRATIONS EXCEEDING 220 PPM. IN RATS EXPOSED TO CONCENTRATIONS AT AND EXCEEDING THIS LEVEL, METABOLISM OCCURS VIA A SECONDARY PATHWAY(S). POSTULATED TO BE EPOXIDATION AND/OR PEROXIDATION, THESE RESULTS ARE CONSIDERED PERTINENT IN ASSESSING THE POTENTIAL HAZARD AT LOW LEVEL EXPOSURES TO VCM.
DESCRIPTORS ***** VCM;METABOLISM;INHALATION;RATS
REVIEW YEAR 1990

Item 205

ACCESSION NUMBER 2254
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PROPORTIONAL MORTALITY AMONG VINYL CHLORIDE WORKERS.
AUTHOR/AFFILIATION MONSON RR,HARVARD UNIV;PETERS JM,SAME;JOHNSON MN,BFG;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 11 PP.75-77(ON SHELF);
DATE 1975
ABSTRACT IN A PROPORTIONAL MORTALITY ANALYSIS OF 161 DECEASED WORKERS IN TWO PLANTS PROCESSING OR PRODUCING VCM, A 50% EXCESS OF DEATHS DUE TO ALL CANCER WAS SEEN. LIVER, BILIARY TRACT, LUNG, AND

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BRAIN CANCERS SHOWED THE GREATEST EXCESS.
DESCRIPTORS ***** VCM;HUMAN;CANCER;EFFECTS;LIVER;BRAIN;LUNG
REVIEW YEAR 1995

Item 206

ACCESSION NUMBER 2251
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OBSERVATIONS ON THE ORAL ADMINISTRATION AND TOXICITY OF VINYL CHLORIDE IN RATS.
AUTHOR/AFFILIATION FERON VJ,NONE;SPEEK AJ,SAME;WILLEMS MI,SAME;VAN BATTUM D,SAME;DE GROOT AP,SAME;
ORIGIN NONE,VOL 13 PP.633-638;
DATE 1975
ABSTRACT NO LIVER DAMAGE FROM ORAL ADMINISTRATION OF VCM AS HIGH AS 300 MG/KG, 6 DAY/WEEK FOR 13 WEEKS.
DESCRIPTORS ***** VCM;ORAL;SUBCHRONIC;RATS
HELD TERMS CIVO;CENTRAL INSTITUTE FOR NUTRITION & FOOD RESEARCH; FD.COSMET.TOXICOL;
REVIEW YEAR 1990

Item 207

ACCESSION NUMBER 2250
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE BIOLOGICAL FATE IN RATS OF VINYL CHLORIDE IN RELATION TO ITS ONCOGENICITY.
AUTHOR/AFFILIATION GREEN T,ICI;HATHWAY DE,ICI;
ORIGIN NONE,VOL 11 PP.545-562;
DATE 1975
DESCRIPTORS ***** VCM;METABOLISM;ORAL;RATS;IV;IP;RATS;
HELD TERMS CHEM-BIOL INTERACTIONS;
REVIEW YEAR 1990

Item 208

ACCESSION NUMBER 2249
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MUTAGENICITY OF CHLOROACETALDEHYDE, A POSSIBLE METABOLIC PRODUCT OF 1,2-DICHLOROETHANE (ETHYLENE
DICHLORIDE), CHLOROETHANOL (ETHYLENE CHLOROHYDRIN), VINYL CHLORIDE, AND CYCLOPHOSPHAMIDE.
AUTHOR/AFFILIATION MCCANN J,UNIV OF CALIFORNIA;SIMMON V,NONE; STREITHIESER D,UNIV OF CALIFORNIA;AMES BN,UNIV OF
CALIFORNIA;
ORIGIN NONE,VOL 72 NO.8 PP.3190-3193;
DATE 1975, AUGUST
DESCRIPTORS ***** VCM;MUTAGENICITY;IN VITRO;METABOLITE;CHLOROACETALDEHYDE;EDC;CYCLOPHOSPHAMIDE;
HELD TERMS CHLOROETHANOL;STANFORD RESEARCH INSTITUTE;PROC.NAT.ACAD.SCI;
REVIEW YEAR 1990

Item 209

ACCESSION NUMBER 2247
FILE LOCATION GEN

BFG52944

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22521088

DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT AN EPIDEMIOLOGIC STUDY OF BLOOD SCREENING TESTS AND ILLNESS HISTORIES AMONG CHEMICAL WORKERS INVOLVED IN THE MANUFACTURE OF POLYVINYL CHLORIDE.
AUTHOR/AFFILIATION WYATT RH,UNKNOWN;KOTCHEN JM,UNKNOWN;HOCHSTRASSER DL,UNKNOWN;BUCHANAN JM,UNKNOWN;CAMPBELL DR, UNKNOWN;SLAUGHTER JC,UNKNOWN;DOLL AH,UNKNOWN;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, VOL. 246 PP.80-87;
DATE 1975, JANUARY 31
DESCRIPTORS ***** PVC;VCM;HUMAN;EFFECTS;
HELD TERMS CLINICAL CHEMISTRY;
REVIEW YEAR 1995

Item 210

ACCESSION NUMBER 2245
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HEPATIC DISEASE AMONG WORKERS AT A VINYL CHLORIDE POLYMERIZATION PLANT.
AUTHOR/AFFILIATION FALK H,CDC;CREECH JL,BFG;JOHNSON MN,BFG;KEY MM,CDC;
ORIGIN JAMA, VOL.230(1) PP.59-68
DATE 1974, OCTOBER 7
ABSTRACT 11 CASES OF HEPATIC DISEASE INCLUDING ANGIOSARCOMA HAVE BEEN IDENTIFIED AT A VCM POLYMERIZATION PLANT.
DESCRIPTORS ***** VCM;PVC;ANGIOSARCOMA;LIVER;HUMAN;EFFECTS
REVIEW YEAR 1995

Item 211

ACCESSION NUMBER 2244
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CLINICAL AND MORPHOLOGIC FEATURES OF HEPATIC ANGIOSARCOMA IN VINYL CHLORIDE WORKERS.
AUTHOR/AFFILIATION MAKK L,UNIV OF LOUISVILLE;DELMORE F,NONE;CREECH JL,BFG;OGDEN LL,UNIVERSITY OF LOUISVILLE;FADELL EH,UNIVERSITY OF LOUISVILLE;SONGSTER CL, UNIVERSITY OF LOUISVILLE;CLANTON J,NONE;JOHNSON MN,BFG; CHRISTOPHERSON MM,UNIVERSITY OF LOUISVILLE
ORIGIN CANCER, VOL. 37 PP.149-163;
DATE 1976
ABSTRACT 15 MALE VCM WORKERS DEVELOPED ANGIOSARCOMA OF THE LIVER. AVERAGE AGES WERE 36 TO 58. EXPOSURE TIME RANGED FROM 4 TO 27.8 YRS (AVG. 16.9 YRS).
DESCRIPTORS ***** VCM;ANGIOSARCOMA;LIVER;HUMAN;EFFECTS;
HELD TERMS SUBURBAN HOSPITAL;UNIV OF MONTREAL; MORPHOLOGY;
REVIEW YEAR 1995

Item 212

ACCESSION NUMBER 2243
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT LIVER DAMAGE AND ANGIOSARCOMA IN VINYL CHLORIDE WORKERS
AUTHOR/AFFILIATION MAKK L,NONE;CREECH JL,BFG;WHELAN JO,NONE;JOHNSON MN,BFG;
ORIGIN JAMA, VOL. 230 PP.65-68;

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DATE 1974, OCTOBER 7
 ABSTRACT RECENTLY, 5 CASES OF HEPATIC ANGIOSARCOMA WERE FOUND IN LOUISVILLE. ALL OF THE PATIENTS HAD WORKED IN A PLANT ENGAGED IN THE PRODUCTION OF PVC. A SYSTEMIC HEALTH SURVEILLANCE PROGRAM WAS INSTITUTED TO DETECT EXISTING LIVER DAMAGE OR ANGIOSARCOMA AND TO FIND EARLY SIGNS OF DEVELOPING LIVER DAMAGE. 1183 EMPLOYEES WERE TESTED. TWO NEW CASES OF HEPATIC ANGIOSARCOMA AND THREE CASES OF PORTAL FIBROSIS WERE DISCOVERED.

DESCRIPTORS ***** VCM;ANGIOSARCOMA;LIVER;HUMAN;EFFECTS
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ACCESSION NUMBER 2241
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT CAPILLARY ABNORMALITIES IN POLYVINYL CHLORIDE WORKERS: EXAMINATION BY IN VIVO MICROSCOPY.
 AUTHOR/AFFILIATION MARICQ HR,NONE;JOHNSON MN,BFG;MHETSTONE CL,NONE;LEROY EC,SAME;
 ORIGIN JAMA, VOL. 236 PP.1368-1371;
 DATE 1976, SEPTEMBER 20
 ABSTRACT EXAMINATION BY WIDE-FIELD CAPILLARY MICROSCOPY OF THE HANDS OF 152 WORKERS IN VINYL CHLORIDE POLYMERIZATION PLANTS DEMONSTRATED SCATERED, SCLERODERMA-LIKE MICROVASCULAR ABNORMALITIES IN 21 WORKERS AND ISOLATED CAPILLARY ABNORMALITIES IN 27, AS COMPARED WITH ONLY 3 ISOLATED ABNORMALITIES IN 50 MANUAL WORKERS NOT EXPOSED TO VCM. THIRTEEN OF 17 VCM WORKERS WITH OBJECTIVE EVIDENCE OF VCM-ASSOCIATEDABNORMALITIES (ANGIOSARCOMA, ETC.) WERE OBSERVED TO HAVE MICROVASCULAR ABNORMALITIES.

DESCRIPTORS ***** VCM;HUMAN;EFFECTS;PVC;
 HELD TERMS MEDICAL UNIV OF SOUTH CAROLINA;CONOCO;CIRCULATION;
 REVIEW YEAR 1995

Item 214

ACCESSION NUMBER 2240
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT IN VITRO SKIN CAPILLARY ABNORMALITIES IN VINYL CHLORIDE WORKERS.
 AUTHOR/AFFILIATION MARICQ HR,NONE;JOHNSON MN,BFG;MHETSTONE CL,NONE;LEROY EC,SAME;
 ORIGIN NONE,VOL 2 PP.235-237;
 DATE 1976
 DESCRIPTORS ***** VCM;HUMAN;EFFECTS;
 HELD TERMS MEDICAL UNIV OF SOUTH CAROLINA;CIRCULATION;MICROCIRCULATION;
 REVIEW YEAR 1995

Item 215

ACCESSION NUMBER 2239
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT GENETIC RISKS OF VINYL CHLORIDE.
 AUTHOR/AFFILIATION INFANTE PF,NIOSH;WAGONER JK,NIOSH;MCMICHAEL AJ,NIOSH;MAXWEILER RJ,NIOSH;FALK H;NIOSH
 ORIGIN THE LANCET,PP.1289-1290;
 DATE 1976, JUNE 12

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ABSTRACT RESPONSE TO DR. PADDLE'S LETTER TO THE EDITOR. REFERENCES METHOD OF DATA COLLECTION USED IN THEIR STUDY PUBLISHED IN LANCET, APRIL 13, 1976(REFER TO AN-3108).
DESCRIPTORS ***** VCM;REPRODUCTION;BIRTH DEFECTS;FETAL TOXICITY;MUTAGENICITY;HUMAN;EFFECTS;;EPIDEMIOLOGY;
TERATOGENICITY
REVIEW YEAR 1990

Item 216

ACCESSION NUMBER 2205
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PHARMACODYNAMICS AND UPTAKE OF VINYL CHLORIDE MONOMER ADMINISTERED BY VARIOUS ROUTES TO RATS.
AUTHOR/AFFILIATION MITHEY JR,NONE;
ORIGIN J OF TOXICOLOGY AND ENVIRONMENTAL HEALTH,VOL 1 PP.381-394;
DATE 1976
ABSTRACT TO ASSESS THE HARARD PRESENTED BY THE ORAL INGESTION OF VCM, CANNULATED RATS WERE INTUBATED WITH 2 MG/ML VCM IN WATER.VCM UPTAKE WAS VERY RAPID. PEAK CONCENTRATIONS WERE REACHED 10 MIN AFTER DOSING. ELIMINATION APPEAR BIEXPONENTIAL. VCM INHALATION AT 7000 PPM ALSO SHOWS A SIMILAR RAPID UPTAKE FOLLOWED BY A PLATEAU. BLOOD LEVELS FELL RAPIDLY TO BARELY DETECTABLE LEVELS AFTER 2 HOURS.
DESCRIPTORS ***** VCM;PHARMACOKINETICS;ORAL;INHALATION;RATS;DISPOSITION;ELIMINATION
HELD TERMS DISPOSITION;
KWIC INDEX NUMBER 01608
REVIEW YEAR 1990

Item 217

ACCESSION NUMBER 2203
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MUTAGENICITY OF VINYL CHLORIDE, CHLOROETHYLENEOXIDE, CHLOROACETALDEHYDE AND CHLOROETHANOL.
AUTHOR/AFFILIATION MALAVEILLE C,IARC;BARTSCH H,IARC;BARBIN A,IARC;CAMUS AM,SAME;MONTESANO R,SAME;CROISY A,NONE;
JACKQUIGNON P,NONE;
ORIGIN NONE,VOL 63 NO.2 PP.363-370;
DATE 1975
ABSTRACT EXPOSURE OF S. TYPHIMURIUM STRAINS TA 1530, TA 1535 AND G-46 TO VINYL CHLORIDE INCREASED THE NUMBER OF HIS+ REV./PLATE 16, 12 OR 5 TIMES OVER THE SPONTANEOUS MUTATION RATE. THE MUTAGENIC RESPONSE FOR TA 1530 STRAIN WAS ENHANCED 7, 4 OR 5-FOLD IN THE PRESENCE OF HUMAN, RAT OR MICE S-9. IN TA1530, CHLOROACETIC ACID SHOWED ONLY TOXIC EFFECTS, WHILE CHLOROACETALDEHYDE, CHLOROETHANOL AND CHLOROETHYLENEOXIDE CAUSED A MUTAGENIC RESPONSE. THE LATTER COMPOUND WAS A STRONG ALKYLATING AGENT.
DESCRIPTORS ***** VCM;IN VITRO;MUTAGENICITY;
HELD TERMS CHLOROETHYLENE OXIDE;CHLOROACETALDEHYDE;CHLOROETHANOL; BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS; BIOCHEMICAL BIOPHYSICAL RESEARCH COMMUNICATION;
KWIC INDEX NUMBER 01506
REVIEW YEAR 1990

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ACCESSION NUMBER 2201

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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;
ORIGIN NONE;
DATE 1975
ABSTRACT AUTHOR REPORTS EXCESS CONGENITAL MALFORMATIONS IN COMMUNITIES WITH PVC-PRODUCTION FACILITIES.
DESCRIPTORS ***** VCM;BIRTH DEFECTS;TERATOGENICITY;CNS DEPRESSION;HUMAN;EFFECTS;EPIDEMIOLOGY
HELD TERMS NYAS;NEW YORK ACADEMY OF SCIENCE;OHIO DEPT OF HEALTH;
KWIC INDEX NUMBER 01433
REVIEW YEAR 1990

Item 219

ACCESSION NUMBER 2149
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT EVALUATION OF THE REISZNER MINIMONITOR CHARCOAL BADGE AS A VCM MONITOR (PART II)
AUTHOR/AFFILIATION BORN JM,BFG;
ORIGIN BFG,CORPORATE TECHNICAL SUPPORT STATUS REPORT 8504-84;
DATE 1985, AUGUST 12
ABSTRACT BRECKSVILLE REPORT OF J.M. BORN CONCERNING DEVELOPMENT AND EVALUATION OF THE REISZNER MINIMONITOR CHARCOAL BADGE FOR VINYL CHLORIDE SAMPLING. ALSO INCLUDES STATISTICAL ANALYSES REPORT OF A.M. FAIRLIE.
DESCRIPTORS ***** VINYL CHLORIDE;METHOD;MONITORING EQUIPMENT;
REVIEW YEAR 1991

Item 220

ACCESSION NUMBER 2142
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT FINAL DRAFT CRITERIA DOCUMENT FOR VINYL CHLORIDE
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN EPA
DATE 1982, JANUARY
ABSTRACT HEALTH EFFECTS BRANCH/OFFICE OF DRINKING WATER DISCUSSES PHYSICAL AND CHEMICAL PROPERTIES,HUMAN EXPOSURE,PHARMACOKINETICS,HEALTH EFFECTS,RISK ASSESSMENT AND MCL UNDER CONSIDERATION FOR VCM.
DESCRIPTORS ***** VCM;DRINKING WATER;HUMANS;EFFECTS;CARCINOGENICITY;CHRONIC;TERATOGENICITY;MUTAGENICITY; PHARMACOKINETICS;
HELD TERMS MCL;MAXIMUM CONTAMINANT LEVEL;
REVIEW YEAR 1990

Item 221

ACCESSION NUMBER 2141
FILE LOCATION GEN
DOCUMENT TYPE EPA REPORT
TITLE OR SUBJECT HEALTH EFFECTS ASSESSMENT FOR VINYL CHLORIDE
AUTHOR/AFFILIATION NONE,NONE;

REG52948

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

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ORIGIN EPA,REPORT NO.PB86-134475;
DATE 1984, SEPTEMBER
ABSTRACT DOCUMENT REPRESENTS A BRIEF,QUANTITATIVELY ORIENTED SCIENTIFIC SUMMARY OF HEALTH EFFECTS DATA. IT WAS DEVELOPED BY THE ENVIRONMENTAL CRITERIA AND ASSESSMENT OFFICE TO ASSIST THE OFFICE OF EMERGENCY AND REMEDIAL RESPONSE IN ESTABLISHING CHEMICAL-SPECIFIC HEALTH-RELATED GOALS OF REMEDIAL ACTIONS. IF APPLICABLE,CHEMICAL-SPECIFIC SUBCHRONIC AND CHRONIC TOXICITY INTERIM ACCEPTABLE INTAKES ARE DETERMINED FOR SYSTEMIC TOXICANTS, OR Q1* VALUES ARE DETERMINED FOR CARCINOGENS FOR BOTH ORAL AND INHALATION ROUTES. A Q1* WAS DETERMINED FOR VINYL CHLORIDE BASED ON BOTH ORAL AND INHALATION EXPOSURE.VINYL CHLORIDE FOLLOWING INHALATION EXPOSURE HAS BEEN SHOWN TO BE CARCINOGENIC IN HUMANS,RATS,MICE AND HAMSTERS. USING DATA FOR TUMOR INCIDENCE IN RATS, A Q1* FOR HUMANS OF 2.5×10^{-2} (MG/KG/DAY)-1 WAS ESTIMATED. NO DATA ARE AVAILABLE CONCERNING ORAL EXPOSURE IN HUMANS AND CANCER RISK. ON THE BASIS OF TOTAL TUMORS IN FEMALE RATS FED VINYL CHLORIDE-CONTAINING DIETS, A HUMAN Q1* OF 2.3 (MG/KG/DAY)-1 WAS ESTIMATED FOR ORAL EXPOSURE.

DESCRIPTORS ***** CARCINOGENICITY;VCM;RISK ASSESSMENT;EFFECTS;RATS;
REVIEW YEAR 1990

Item 222

ACCESSION NUMBER 2121
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT APPLICATION OF THE "FILTER MODEL" TO A RISK ASSESSMENT FOR VINYL CHLORIDE
AUTHOR/AFFILIATION OLSON CS,EPA;SCHAEFFER DJ,NONE;
ORIGIN J OF TOXICOLOGY AND ENVIRONMENTAL HEALTH,VOL 17 PP.1-22;
DATE 1986
ABSTRACT THE FILTER MODEL WAS USED TO ESTIMATE THRESHOLDS FOR THE INDUCTION OF CANCER FROM MANY DOSE-RESPONSE SETS FOR INHALATION AND INGESTION EXPOSURE TO VINYL CHLORIDE FOR RAT AND INHALATION EXPOSURE FOR MOUSE. ESTIMATES FOR A VARIETY OF END-POINT COMBINATIONS WERE LOG-NORMALLY DISTRIBUTED OVER ABOUT 2 DECADES FROM ABOUT 1 TO 100 PPM FOR INHALATION EXPOSURE TO RAT AND 0.1 TO 30 PPM FOR MOUSE. WHEN THE DATA IS TRANSFORMED TO "DOSE" (MILLIGRAMS PER KILOGRAM BODY WEIGHT PER DAY), THE ESTIMATES FOR INHALATION AND INGESTION EXPOSURE AND ALSO FOR RAT AND MOUSE ARE SIMILAR. ESTIMATES FOR DIFFERENT EXPERIMENTS CARRIED OUT FOR DIFFERENT DURATIONS OF TIME (SINGLE EXPOSURE TO 1 YR) ARE COMPARABLE. SINCE THE THRESHOLD IS AN INTRINSIC PROPERTY OF THE BIOLOGICAL SYSTEM, THE ESTIMATE, EVEN FROM A PROTOCOL FOR SHORT EXPOSURE AND LESS THAN LIFETIME OBSERVATION, CAN BE USED DIRECTLY IN A RISK ASSESSMENT AS THE MAXIMUM SAFE DOSE.

DESCRIPTORS ***** VCM;RISK ASSESSMENT;CARCINOGENICITY;EFFECTS;HUMAN;RAT;MICE;
REVIEW YEAR 1995

Item 223

ACCESSION NUMBER 2116
FILE LOCATION GEN
DOCUMENT TYPE LITERATURE SEARCH
TITLE OR SUBJECT CITATIONS FROM THE LIFE SCIENCES COLLECTION DATABASE--VINYL CHLORIDE: TOXICOLOGY (1978-1985)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NTIS,PB86-856119;
DATE 1986
ABSTRACT THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE TOXICITY OF VINYL CHLORIDE AND POLYVINYL CHLORIDE FOLLOWING SHORT AND LONG TERM EXPOSURES. METABOLISM, CARCINOGENICITY, AND TERATOGENIC POTENTIAL OF THESE SUBSTANCES ARE CONSIDERED. METHODOLOGY TO QUANTITATE THEIR PRESENCE IN

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ATMOSPHERIC DUST AND BODY TISSUES ARE DISCUSSED. OCCUPATIONAL HAZARDS ARE ALSO NOTED. (THIS
UPDATED BIBLIOGRAPHY CONTAINS 231 CITATIONS, 11 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS
EDITION.)

DESCRIPTORS ***** VCM;PVC;HUMAN;EFFECTS;ANGIOSARCOMA;CARCINOGENICITY;ACUTE;MICE;RATS; RABBITS;
REVIEW YEAR 1990

Item 224

ACCESSION NUMBER 2086
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT OCCUPATIONAL EXPOSURE AND BRAIN TUMORS
AUTHOR/AFFILIATION MOSS AR,UNIV OF CALIFORNIA;
ORIGIN J OF TOXICOLOGY AND ENVIRONMENTAL HEALTH,VOL 16 PP.703-711;
DATE 1985
ABSTRACT EPIDEMIOLOGICAL EVIDENCE OF AN OCCUPATIONAL RISK OF BRAIN CANCER HAS BEEN REPORTED IN FOUR
INDUSTRIES WHERE CHEMICAL EXPOSURES ARE LIKELY, MOST RECENTLY IN A SERIES OF PROSPECTIVE STUDIES
IN THE PETROCHEMICAL INDUSTRY. HOWEVER, ONLY IN THE CASE OF VINYL CHLORIDE EXPOSURE HAS AN
OCCUPATIONAL CENTRAL NERVOUS SYSTEM CARCINOGEN BEEN IDENTIFIED. THIS REPORT REVIEWS THE
CONVERGENCE OF EPIDEMIOLOGICAL AND LABORATORY EVIDENCE THAT ESTABLISHED THE OCCUPATIONAL
CARCINOGENICITY OF VINYL CHLORIDE, AND DISCUSSES IN DETAIL THE CURRENT EVIDENCE FOR AN
OCCUPATIONAL RISK OF BRAIN TUMORS IN THE PETROCHEMICAL INDUSTRY.

DESCRIPTORS ***** BRAIN;TUMORS;VCM;HUMAN;EFFECTS;
HELD TERMS GLIOMAS;
REVIEW YEAR 1995

Item 225

ACCESSION NUMBER 2068
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT EXPOSURE TO VINYL CHLORIDE AND ANGIOSARCOMA OF THE LIVER:A REPORT OF THE REGISTER OF CASES
AUTHOR/AFFILIATION FORMAN D,NONE;BENNETT B,ICI;STAFFORD J,SAME;DOLL R,NONE;
ORIGIN BRITISH J OF INDUSTRIAL MEDICINE,VOL 42 PP.750-753;
DATE 1985
ABSTRACT THE ASSOCIATION OF PLASTIC MANUFACTURERS IN EUROPE MAINTAINS A REGISTER OF ALL CASES OF
ANGIOSARCOMA OF THE LIVER (ASL) RESULTING FROM EXPOSURE TO VINYL CHLORIDE MONOMER (VCM).THIS
REGISTER HAS RECORDED ALL KNOWN VCM RELATED CASES OF THE DISEASE WORLDWIDE THAT HAVE BEEN
HISTOLOGICALLY CONFIRMED.ALTHOUGH LIKELY TO BE INCOMPLETE,IT IS THE MOST COMPREHENSIVE TABULATION
OF SUCH CASES AVAILABLE AND,BY THE END OF 1984,118 MEN HAD BEEN REGISTERED .THE INFORMATION FROM
ANALYSIS OF THE CASES CURRENTLY ON THE REGISTER IS USED TO MAKE AN APPROXIMATE PROJECTION OF THE
NUMBER OF CASES TO BE EXPECTED IN THE FUTURE.THE CONCLUSION FROM THIS PROJECTION IS THAT THE
INDUSTRY IS REACHING THE HALFWAY STAGE IN THE APPEARANCE OF VCM RELATED ASL.

DESCRIPTORS ***** VCM;ANGIOSARCOMA;CARCINOGENICITY;HUMAN;EFFECTS;LIVER;
REVIEW YEAR 1990

Item 226

ACCESSION NUMBER 2038
FILE LOCATION GEN

BFG52950

22521074

DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT TOXIC EFFECT OF ALIPHATIC CHLORINATED BYPRODUCTS FROM VINYL CHLORIDE PRODUCTION ON MARINE ANIMALS
AUTHOR/AFFILIATION ROSENBERG R,NONE;GRAHN O,NONE;JOHANSSON L,NONE;
ORIGIN WATER RESEARCH,VOL 9 PP.607-612;
DATE 1975
ABSTRACT THE ACUTE TOXIC EFFECTS OF CHLORINATED ALIPHATIC HYDROCARBONS, FORMED AS BY-PRODUCTS FROM ONE SWEDISH AND ONE NORWEGIAN PLASTIC PRODUCTION FACTORY,WERE EXAMINED BY EXPERIMENTS WITH COD (GADUS MORHUA),SHRIMP (CRANGON) AND A POLYCHAETE (OPHRYOTROCHA LABRONICA). THE TOXICITY OF 1, 2-DICHLOROETHANE--A DOMINATING COMPOUND OF THE BY-PRODUCTS--AND A DISTILLATE WITH HEAVIER COMPOUNDS WERE ALSO ESTIMATED. THE TOXICITY (48H,LC50) RATIO BETWEEN THE CONCENTRATIONS OF A SWEDISH BY-PRODUCT ,A NORWEGIAN BY-PRODUCT, AND DICHLOROETHANE WAS 1:9:34. THE EFFECTS OF 1, 2-DICHLOROETHANE,1,1,2-TRICHLOROETHANE AND 1,1,2-TRICHLOROETHENE ON THE REPRODUCTIVITY, AND ON THE SURVIVAL OF ADULTS OF OPHRYOTROCHA WERE STUDIED. THE REPRODUCTIVITY WAS AFFECTED BY THESE COMPONENTS IN FAR LOWER CONCENTRATIONS THAN THOSE HAVING ACUTE TOXIC EFFECTS ON ADULT SPECIMENS. IN ONE EXPERIMENT SERIES OPHRYOTROCHA WAS EXPOSED SUDDENLY TO THE TEST SOLUTIONS AND IN A SECOND SERIES THE FIRST PRESENTATION WAS MADE BY A SUCCESSIVE INCREASE OF THE CONCENTRATION DURING ONE HOUR. THE ESTIMATED 96-H LC50-VALUES FOR THE TEST WITH SUCCESSIVE INCREASE WERE 1:8-3:1 TIMES HIGHER THAN THOSE FOUND FOR THE TEST WITH SUDDEN EXPOSURE. IT IS SUGGESTED THAT A PHYSIOLOGICAL SHOCK IN THE START OF BIOASSAY EXPERIMENTS MIGHT HAVE REDUCED THE LC50- VALUES IN MANY PREVIOUS TESTS.

DESCRIPTORS ***** VCM;EDC;EFFECTS;AQUATIC TOXICITY; 1,1,2-TRICHLOROETHANE;
HELD TERMS 1,1,2-TRICHLOROETHENE;CHLORINATED HYDROCARBONS; SWEDISH WATER AND AIR POLLUTION RESEARCH LAB;
KWIC INDEX NUMBER 01020PUBL
REVIEW YEAR 1990

Item 227

ACCESSION NUMBER 2037
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT CARCINOGENITY BIOASSAYS OF VINYL CHLORIDE:CURRENT RESULTS
AUTHOR/AFFILIATION MALTONI C,NONE;LEFEMINE G,NONE;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,VOL 246 PP.195-218;
DATE 1975, JANUARY 31
ABSTRACT STUDIES SHOW THAT VCM CAUSES CANCER IN RATS,MICE AND HAMSTERS (ANGIOSARCOMA AND POSSIBLY OTHER TUMORS).

DESCRIPTORS ***** ANGIOSARCOMA; VCM; CARCINOGENICITY; RATS; MICE; HAMSTERS; INHALATION; EFFECTS; CHRONIC;
HELD TERMS LONG-TERM;
KWIC INDEX NUMBER 01019PUBL
REVIEW YEAR 1990

Item 228

ACCESSION NUMBER 2034
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT THE INFLUENCE OF SOME BYPRODUCTS FROM VINYLCHLORIDE PRODUCTION ON FERTILIZATION,DEVELOPMENT AND LARVAL SURVIVAL ON PLAICE,COD AND HERRING EGGS
AUTHOR/AFFILIATION BRAATEN B,NONE;MOLLERUD FE,NONE;SOLEMDAL P,NONE;

BFG52951

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ORIGIN NONE,PP.81-90;
DATE 1972
ABSTRACT THE EFFECT OF BYPRODUCTS FROM NORWEGIAN VINYLCHLORIDE PRODUCTION ON FERTILIZATION,EGG DEVELOPMENT AND LARVAL SURVIVAL WAS TESTED. EGGS AND LARVAE OF PLAICE,COD AND HERRING APPARENTLY SEEMED UNAFFECTED BY CONCENTRATIONS UP TO 10 PPM,BUT CONCENTRATIONS OF 100 AND 50 PPM DELAY AND STOP DEVELOPMENT OF PLAICE EGGS IN AN EARLY STAGE. COD LARVAE SEEMED TO SURVIVE HIGH CONCENTRATIONS OF THE TOXIC SUBSTANCES FOR FAR LONGER PERIODS THAN DID I AND II YEAR GROUPS OF SAITHE.
DESCRIPTORS ***** VCM; EFFECTS; AQUATIC TOXICITY;
HELD TERMS INSTITUTE OF MARINE RESEARCH (NORWAY);
KNIC INDEX NUMBER 01016PUBL
REVIEW YEAR 1991

Item 229

ACCESSION NUMBER 2031
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT CHROMOSOME ABERRATIONS IN WORKERS EXPOSED TO VINYL CHLORIDE
AUTHOR/AFFILIATION FUNES-CRAVIOTO F,NONE;LAMBERT B,SAME;LINDSTEN J,SAME; EHRENBERG L,UNIV OF STOCKHOLM;NATARAJAN AT, SAME; OSTERMAN-GOLKAR S,SAME;
ORIGIN THE LANCET,PP. 459-460;
DATE 1975, FEBRUARY 22
ABSTRACT LYMPHOCYTE-CULTURES FROM WORKERS (7 EXPOSED,3 CONTROLS) WERE STUDIED. THE FREQUENCY OF ABNORMAL CULTURES WERE SIGNIFICANTLY HIGHER IN THE EXPOSED GROUP.
DESCRIPTORS ***** VCM;HUMANS;EFFECTS;CHROMOSOMAL ABERRATION;MUTAGENICITY;
HELD TERMS CHROMOSOMAL ABNORMALITIES;
KNIC INDEX NUMBER 01013PUBL
REVIEW YEAR 1990

Item 230

ACCESSION NUMBER 2015
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT COMBUSTION PRODUCTS FROM VINYL CHLORIDE MONOMER
AUTHOR/AFFILIATION O'MARA MM,BFG;
ORIGIN AIHA
DATE 1971, MARCH
DESCRIPTORS ***** HCL;PHOSGENE;VCM;
KNIC INDEX NUMBER 00950PUBL
REVIEW YEAR 1991

Item 231

ACCESSION NUMBER 1805
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE-ASSOCIATED DISEASE
AUTHOR/AFFILIATION LELBACH WK,NONE;MARSTELLER HJ,NONE;

BFG52952

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT
Order number 911001-135640-MIZ -001-007
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22521076

ORIGIN NONE,VOL 47 PP.1-110;
DATE 1981
ABSTRACT THIS IS AN EXTENSIVE REVIEW COVERING PRODUCTION,TOXICOLOGY, CHEMICAL AGENTS,PATHOLOGY
CONSIDERATIONS,NON-MALIGNANT DISEASE, ANGIOSARCOMA, AND MANY OTHER ASPECTS.
DESCRIPTORS ***** PVC,VCM;ACUTE,CHRONIC;CARCINOGENICITY;ANGIOSARCOMA;ACROOSTEOLYSIS; MUTAGENICITY;METABOLISM;
PHARMACOKINETICS;
HELD TERMS THROMBOCYTOPENIA;UNIV OF BONN (GERMANY);ADVANCES IN INTERNAL MEDICINE AND PEDIATRICS; IMMUNOLOGY;
REVIEW YEAR 1991

Item 232

ACCESSION NUMBER 1801
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MALIGNANT TUMORS OF THE LIVER AND LUNGS IN AN AREA WITH A PVC INDUSTRY
AUTHOR/AFFILIATION SARIC M,NONE;KULCAR Z,NONE;ZORICA M,NONE;GELIC I,NONE;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 17 PP.189-192;
DATE 1976, OCTOBER
ABSTRACT THE INCIDENCE OF MALIGNANT TUMORS OF THE LUNG AND BRONCHUS AND OF CYTOLOGICALLY CONFIRMED
PRIMARY MALIGNANT TUMOR OF THE LIVER WAS ANALYZED FOR A 4-YR PERIOD IN A CITY WITH SEVERAL
FACILITIES, INCLUDING A PVC INDUSTRY. PRIOR TO THE STUDY TWO CASES OF ANGIOSARCOMA OF THE LIVER
WERE DIAGNOSED IN WORKERS EMPLOYED IN PVC PRODUCTION. THE STUDY DOES NOT INDICATE THAT THE
OCCURRENCE OF MALIGNANT TUMORS OTHER THAN ANGIOSARCOMA IS ASSOCIATED WITH EXPOSURE TO VINYL
CHLORIDE.
DESCRIPTORS ***** VCM,PVC;LIVER,EFFECTS;LUNG;ANGIOSARCOMA;HUMAN;EPIDEMIOLOGY;
HELD TERMS INSTITUTE FOR MEDICAL RESEARCH & OCCUPATIONAL HEALTH (YUGOSLAVIA);
REVIEW YEAR 1992

Item 233

ACCESSION NUMBER 1800
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TUMORS IN PATIENTS WITH ANGIOSARCOMA OF THE LIVER
AUTHOR/AFFILIATION VIANNA NJ,NONE;
ORIGIN NONE,VOL 95 NO.2 PP.185-186;
DATE 1981, AUGUST
ABSTRACT MOST PATIENTS WITH WELL-DOCUMENTED ANGIOSARCOMA OF THE LIVER HAVE NOT DOCUMENTED EXPOSURE TO ANY
OF THESE THREE CHEMICALS (1),SOME CONSIDERATION SHOULD ALSO BE GIVEN TO THE POSSIBILITY THAT
OTHER AGENTS STRUCTURALLY SIMILAR TO VINYL CHLORIDE (SUCH AS CHLOROPRENE,TRICHLOROETHYLENE) MIGHT
PLAY A ROLE IN THE CAUSE OF THIS AND POSSIBLY OTHER MALIGNANT DISORDERS.
DESCRIPTORS ***** VCM;ANGIOSARCOMA;THOROTRAST;HUMAN;EFFECTS;
HELD TERMS ARSENICALS;ANNALS OF INTERNAL MEDICINE;
REVIEW YEAR 1992

Item 234

ACCESSION NUMBER 1799
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL

BFG52953

22521077

TITLE OR SUBJECT POWER CONSIDERATIONS IN EPIDEMIOLOGIC STUDIES OF VINYL CHLORIDE WORKERS
AUTHOR/AFFILIATION BEAUMONT JJ,NIOSH;BRESLOW NE,NONE;
ORIGIN AMERICAN J OF EPIDEMIOLOGY,VOL 114 NO.5 PP.725-734;
DATE 1981
ABSTRACT NINE RETROSPECTIVE MORTALITY STUDIES OF WORKERS EXPOSED TO VINYL CHLORIDE WERE REVIEWED TO DETERMINE WHETHER DIFFERENCES IN THEIR HYPOTHESIS TESTING RESULTS MIGHT BE DUE TO DIFFERENCES IN STATISTICAL POWER. WHERE POSSIBLE, THE POWER OF EACH STUDY WAS CALCULATED FOR CANCER OF THE LUNG, BRAIN AND LIVER. WHEN POWER WAS TAKEN INTO CONSIDERATION, THE RESULTS FOR LIVER AND BRAIN CANCER WERE FOUND TO BE CONSISTENT WITH AN ETIOLOGIC ROLE FOR VINYL CHLORIDE. FOR LUNG CANCER, THE DATA WERE NOT CONSISTENT WITH AN ETIOLOGIC ROLE, IN THAT TWO STUDIES WITH VERY HIGH POWER YIELDED NEGATIVE RESULTS.

DESCRIPTORS ***** VCM;LUNG;CANCER;HUMAN;EFFECTS;EPIDEMIOLOGY;
HELD TERMS STATISTICAL POWER; UNIV OF WASHINGTON;
REVIEW YEAR 1992

Item 235

ACCESSION NUMBER 1796
FILE LOCATION GEN
DOCUMENT TYPE BIBLIOGRAPHY
TITLE OR SUBJECT THE PHYSIOLOGICAL EFFECTS OF VINYL CHLORIDE AND POLYVINYL CHLORIDE (USERS MANUAL,VOL 1 AND VOL 11)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,DEVELOPED DATABASE SYSTEM CALLED BOYD DOCUMENT SYSTEM (BDS);
DATE 1981
ABSTRACT THE FIELD OF OCCUPATIONAL SAFETY AND HEALTH HAS UNDERGONE AN INFORMATION EXPLOSION OVER THE LAST SEVERAL YEARS. THE PVC SAFETY GROUP OF THE SOCIETY OF THE PLASTICS INDUSTRY, INC. (SPI) HAS ASSEMBLED THE LITERATURE ON RELEVANT RESEARCH FINDINGS APPLICABLE TO THE PHYSIOLOGICAL EFFECTS OF VINYL CHLORIDE (VC) AND POLYVINYL CHLORIDE (PVC). THIS INFORMATION IS EASILY ACCESSIBLE AND CAN BE CONVENIENTLY SEARCHED. ANY INTERESTED RESEARCHER, ADMINISTRATOR OR LEGAL REPRESENTATIVE MAY REQUEST A SEARCH OF THIS DATABASE. THE INFORMATION OBTAINED IN THIS DATABASE WILL BE SUPPORTIVE OF RESPONSES TO GOVERNMENT INQUIRY OR ACTIONS,LITIGATION,AND COMPARISON OF SCIENTIFIC RESULTS.

DESCRIPTORS ***** PVC;VCM;TOXICITY DATA;
HELD TERMS DANIEL P. BOYD & CO;
REVIEW YEAR 1992

Item 236

ACCESSION NUMBER 1795
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT EVALUATION OF MORTALITY IN BFGOODRICH WORKERS: A FOLLOW-BACK STUDY OF MEDICAL RECORDS AND DEATH CERTIFICATES (FINAL REPORT)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,FOR BFG;
DATE 1974, MAY 17
ABSTRACT THIS REPORT (BFR) SUMMARIZES THE RESPONSE OF TABERSHAM/COOPER ASSOCIATES (TCA) TO A REQUEST FROM B.F. GOODRICH COMPANY (BFG) TO TO EVALUATE THE POSSIBLE ROLE OF VINYL CHLORIDE AS A CAUSATIVE AGENT FOR ANGIOSARCOMA OF THE LIVER IN THEIR WORKERS. MUCH OF THE ACTIVITY CENTERED UPON THE LOUISVILLE,KENTUCKY PLANT WHERE CASES OF ANGIOSARCOMA HAD BEEN IDENTIFIED PREVIOUSLY. AN

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INTERIM REPORT WAS SUBMITTED BY TCA TO BFG ON MARCH 20, 1974. IT SUMMARIZED MEDICAL AND INDUSTRIAL HYGIENE RECOMMENDATIONS, AND PROGRESS IN EPIDEMIOLOGIC STUDIES.

DESCRIPTORS ***** VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;
HELD TERMS TABERSHAW/COOPER ASSOCIATES;
REVIEW YEAR 1992

Item 237

ACCESSION NUMBER 1794
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT MEDICAL RECORDS AND INDUSTRIAL HYGIENE STUDIES FOR BFG
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,PROGRESS REPORT FOR BFG;
DATE 1974, MARCH 20
ABSTRACT THIS REPORT DETAILS THE STATUS AS OF MARCH, 1974, OF CONSULTATIVE ACTIVITIES PROVIDED BY TABERSHAW/COOPER ASSOCIATES,INC. TO BFGOODRICH COMPANY WITH RESPECT TO THE MORTALITY AND MORBIDITY ASCRIBED TO THE HANDLING OF VINYL CHLORIDE, ESPECIALLY IN THE BFGOODRICH LOUISVILLE PLANT. RECOMMENDATIONS AND PROPOSALS ARE ADDRESSED.

DESCRIPTORS ***** VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;
HELD TERMS TABERSHAW/COOPER ASSOCIATES;
REVIEW YEAR 1992

Item 238

ACCESSION NUMBER 1793
FILE LOCATION GEN
DOCUMENT TYPE PROCEEDINGS
TITLE OR SUBJECT BIRTH DEFECTS AND VINYL CHLORIDE
AUTHOR/AFFILIATION EDMONDS,CDC;
ORIGIN NIOSH,CONFERENCE ON WOMEN AND THE WORKPLACE (WASHINGTON);
DATE 1976, JUNE 17-19
ABSTRACT STATISTICAL COMPARISONS ON DISTANCES VARYING FROM ONE MILE TO 10 MILES OF PARENTAL RESIDENCE TO THE PLANT INDICATED THAT THERE WAS NO DIFFERENCE BETWEEN THE CASES AND CONTROL.

DESCRIPTORS ***** VCM;BIRTH DEFECTS;HUMAN;EFFECTS;EPIDEMIOLOGY;
REVIEW YEAR 1992

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ACCESSION NUMBER 1792
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE AND CONGENITAL MALFORMATION
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN CDC
DATE 1976
ABSTRACT IN MARCH 1975, THE OHIO DEPARTMENT OF HEALTH REPORTED AN INCREASED RATE OF CENTRAL NERVOUS SYSTEM (CNS) MALFORMATIONS IN 3 OHIO COMMUNITIES WHERE POLYVINYL CHLORIDE (PVC) POLYMERIZATION PLANTS ARE LOCATED (1). THE MALFORMATION RATES WERE DERIVED FROM BIRTH CERTIFICATE DATA FOR 1970-1973 AND WERE COMPAREED WITH SIMILAR DATA FOR THE ENTIRE STATE OF OHIO. THE INCREASE WAS NOT

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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 240

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 241

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 242

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;

BFG52956

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

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22321080

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

Item 243

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 HLAA 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 244

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

Item 245

BFG52957

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

Order number 911001-135640-WIZ -001-007

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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; ND (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 246

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;
 REVIEW YEAR 1990

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Item 247

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,DOW CHEMICAL CO,OYEN F,SAME;ROME 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 248

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 249

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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Item 250

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 251

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 252

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 253

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;EPIDEMIOLOGY;
HELD TERMS BRITISH J OF INDUSTRIAL MEDICINE;
REVIEW YEAR 1995

Item 254

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;
KWIC INDEX NUMBER 00713REPO
REVIEW YEAR 1990

Item 255

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 SHAMINIGAN 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 SHAMINIGAN THAN IN THE COMPARISON COMMUNITIES. HOWEVER, THERE WAS NO EXCESS OF STILLBIRTHS IN SHAMINIGAN, 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;EPIDEMIOLOGY;EFFECTS;
HELD TERMS LAVAL UNIV;
REVIEW YEAR 1991

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Item 256

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 TRANSPLACENTALLY IS REVIEWED IN COMPARISON WITH KNOWN TRANSPLACENTAL 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 REEACTIVE METABOLITE CHLOROXYRANE,THE CARCINOGENICITY OF WHICH IS ALSO REVIEWED. VINYL CHLORIDE IS UNEQUIVOCALLY A TRANSPLACENTAL 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 TRANSPLACENTAL CARCINOGENS. ALSO REFER TO AN#3864 (PAPER/KWIC 04589).

DESCRIPTORS ***** TRANSPLACENTAL CARCINOGEN;VCM;FETAL TOXICITY;RAT; CARCINOGENICITY;
REVIEW YEAR 1991

Item 257

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 258

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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DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT
Order number 911001-135640-WIZ -001-007
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DESCRIPTORS ***** VCM;RATS;INHALATION;METABOLISM;EFFECTS;
HELD TERMS MEDICAL ACADEMY (POLAND);
REVIEW YEAR 1991

Item 259

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 260

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 261

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 (TEM). 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 262

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 263

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;HANDSCHEER 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 264

ACCESSION NUMBER 1360
FILE LOCATION GEN
DOCUMENT TYPE CORR

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT
Order number 911001-135640-WIZ -001-007
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22521088

TITLE OR SUBJECT PROCEDURES FOR THE DETERMINATION OF VCM IN PACIFIERS
AUTHOR/AFFILIATION O'MARA 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 265

ACCESSION NUMBER 1359
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT RISK ASSESSMENT OF EXPOSURE TO VINYL CHLORIDE
AUTHOR/AFFILIATION STOTT MT,DOM CHEMICAL CO;WATANABE 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 266

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 HOODS 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 267

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;

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Order number 911001-135640-WIZ -001-007

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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 CRITIZED AS "EPIDEMIOLOGIC GERRYMANDERING". SEE THE REVIEW (KMIC 03648) BY BRIAN MAC MAHON, HARVARD. ALSO REFER TO ANN2201(KMIC 01433) INFANTE'S PAPER.

DESCRIPTORS ***** VCM;PVC;BIRTH DEFECTS;HUMAN;EFFECTS;EPIDEMIOLOGY;
 HELD TERMS OHIO DEPT OF HEALTH;
 REVIEW YEAR 1991

Item 268

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 269

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;TAMBURRO 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 270

ACCESSION NUMBER 1343
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT NEOPLASTIC RISK AMONG WORKERS EXPOSED TO VINYL CHLORIDE
 AUTHOR/AFFILIATION MAXHEILER RJ,NIOSH;STRINGER W,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 271

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 272

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 273

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

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Item 274

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 275

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 MAXWEILER 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 SERIALY 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 276

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 NORSK HYDRO (NORMAY;
REVIEW YEAR 1990

Item 277

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, NORSK HYDRO A.S,
PORSGRUNN FABRIKKER
AUTHOR/AFFILIATION HILLESTAD L,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 NORSK HYDRO (NORWAY)
REVIEW YEAR 1990

Item 278

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 WM,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 279

ACCESSION NUMBER 1290
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS II. AN INDUSTRIAL HYGIENE STUDY
AUTHOR/AFFILIATION COOK WA,NONE;GIEVER PM,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 280

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 MM,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 281

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 282

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 283

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

Item 284

ACCESSION NUMBER 1242
FILE LOCATION GEN

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22521094

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

Order number 911001-135640-WIZ -001-007

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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 285

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 286

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 287

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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DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

Order number 911001-135640-WIZ -001-007

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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;VCM;FDA;
 REVIEW YEAR 1990

Item 289

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 ***** VCM;PVC;FDA;
 REVIEW YEAR 1990

Item 290

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; VCM; PVC;
 KWIC INDEX NUMBER 00377PUBL
 REVIEW YEAR 1990

Item 291

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,DOW CHEMICAL CO,MENSIK DJ,SAME;PINKERTON MN,SAME; WHORTON EB,UNIV OF TEXAS;
 ORIGIN DOW CHEMICAL CO,FOR MCA
 DATE 1975
 ABSTRACT STUDIES BY THE BIOMEDICAL AND COMPARATIVE TOXICOLOGY RESEARCH LABORATORY OF THE DOW 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;
 HELD TERMS CYTOGENETIC EFFECTS; CHROMOSOMAL ABNORMALITIES

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KWIC INDEX NUMBER 00367PAPE
REVIEW YEAR 1990

Item 292

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

Item 293

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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Item 294

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 SEELER AO, HARVARD UNIV; CLINTON H, 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;
KWIC INDEX NUMBER 00353TOXS
REVIEW YEAR 1995

Item 295

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;
KWIC INDEX NUMBER 00315PUBL
REVIEW YEAR 1990

Item 296

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;
KWIC INDEX NUMBER 00314PUBL
REVIEW YEAR 1990

Item 297

ACCESSION NUMBER 1121
FILE LOCATION GEN

BFG5297A

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

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22591093

BFGG29195

DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT A STUDY OF THE TOXICITY OF GEON 202 RESIN
AUTHOR/AFFILIATION SEELER 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, VDC, PVC, EFFECTS, DIET, RATS, DOGS, CHRONIC,
HELD TERMS GEON 202,
KWIC INDEX NUMBER 00298TOXS
REVIEW YEAR 1992

Item 298

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 299

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, DON CHEMICAL CO, HUTCHLER 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

DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

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Item 300

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;
 KWIC INDEX NUMBER 04335
 REVIEW YEAR 1990

Item 301

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 302

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;

91625GCEB

HELD TERMS HEPATITIS;ARG SANIT;
REVIEW YEAR 1990

Item 303

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 304

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 305

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 306

ACCESSION NUMBER 711

BFG52977

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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 307

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 1991, FEBRUARY
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 308

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

BFG52978

Item 309

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 JUHE S,NONE;LANGE CE,NONE;
ORIGIN NONE,VOL 97 PP.1922-1923;
DATE 1972
DESCRIPTORS ***** VCM;AOL;SYNDROME
HELD TERMS SCLERODERMA;DTSCH MED WCHR;
REVIEW YEAR 1990

Item 310

ACCESSION NUMBER 703
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TOXIC TRIGEMINAL DISEASE AND POLYVINYLIDENE CHLORIDE
AUTHOR/AFFILIATION KRIEGER J,NONE;WARTER 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 311

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 WM,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 312

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;

22521102

BFG52979

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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 313

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 314

ACCESSION NUMBER 694
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS
 AUTHOR/AFFILIATION WILSON RH,BFG;MC CORMICK WE,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
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22521104

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 316

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 317

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;WEIL 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 318

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

BFG52981

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22521105

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AUTHOR/AFFILIATION FERON VJ,NONE;KRUYSSSE A,NONE;TIL HP,NONE;
 ORIGIN NONE,VOL 13 PP.25-28;
 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 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 HEIGHTS. 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 319

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

Item 320

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 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 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 (EPENDYMOMA),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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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 WISTAR 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 STRON 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 322

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 WR,NONE;
 ORIGIN J OF AIHA,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 323

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 (ALVEOLOGENIC 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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DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT

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DESCRIPTORS ***** WAS REPORTED (Y. SUZUKI, 1978, ENVIRON. RES. 16, 205-301). 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
REVIEW YEAR CITY UNIV OF NEW YORK; 1990

Item 324

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 325

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 326

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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DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT
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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 327

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 328

ACCESSION NUMBER 674
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT STUDIES ON THE METABOLISM OF VINYL CHLORIDE
AUTHOR/AFFILIATION ANTWEILER 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 329

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

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22521109

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 330

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
HELD TERMS DISPOSITION;TOXICOLOGY LETTERS;
REVIEW YEAR 1990

Item 331

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

Item 332

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 WATANABE PG,DOW CHEMICAL CO;HEFNER RE,SAME;GEHRING PJ,SAME;
ORIGIN DOW 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 333

ACCESSION NUMBER 669
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HEPATIC MACROMOLECULAR BINDING FOLLOWING EXPOSURE TO VINYL CHLORIDE
AUTHOR/AFFILIATION MATANABE PG,DOW 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 334

ACCESSION NUMBER 668
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT A PROCEDURE FOR PREPARING 14C-LABELED VINYL CHLORIDE
AUTHOR/AFFILIATION WAGNER 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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DATA SEARCH ON VCM/TOXICITY STUDIES FOR CRAIG ELGUT
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AUTHOR/AFFILIATION GEHRING PJ,DOW CHEMICAL CO;
ORIGIN DOW 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 339

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 340

ACCESSION NUMBER 647
FILE LOCATION GEN
DOCUMENT TYPE BOOK
TITLE OR SUBJECT PERCUTANEOUS ABSORPTION OF VINYL CHLORIDE
AUTHOR/AFFILIATION HEFNER RE,NONE;WATANABE 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 341

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 342

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 343

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;TAMBURRO 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 344

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 345

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 346

ACCESSION NUMBER 595
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT MUTAGENICITY OF VINYL CHLORIDE,VINYLDIENE 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 347

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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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 351

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 352

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 353

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;
HELD TERMS METABOLISM
COVALENT BINDING; VINYL FLUORIDE;VINYLIDENE FLUORIDE;EDC;VINYL BROMIDE; TCE;BIOCHEMICAL PHARMACOLOGY;

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Item 354

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 355

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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22501118

BF652995

Item 356

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 357

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
BIO-TEST LABS, INC.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN CMA
DATE 1978
DESCRIPTORS ***** VCM;INHALATION;RATS;MICE;HAMSTERS;CARCINOGENICITY;CHRONIC
HELD TERMS AUDIT;
REVIEW YEAR 1990

Item 358

ACCESSION NUMBER 582
FILE LOCATION GEN
DOCUMENT TYPE RESEARCH LAB REPORT
TITLE OR SUBJECT VINYL CHLORIDE PATHOLOGY REPORT
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,FDR 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 359

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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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 WEST +ASSOCIATES, AND AUDIT GROUP REPORTS.
DESCRIPTORS ***** VCM;INHALATION;CARCINOGENICITY;CHRONIC;RATS;MICE;HAMSTERS
REVIEW YEAR 1990

Item 360

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 361

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 362

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 1976, 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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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;
COMMENTS MOUNT SINAI SCHOOL OF MEDICINE;BRITISH J OF INDUSTRIAL MEDICINE;
BLH(84) GOOD GENERAL ARTICLE ON POSSIBLE ENVIRONMENTAL CAUSES OF HEART DISEASE WITH MANY REFERENCES CITED.
REVIEW YEAR 1989

Item 364

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 365

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 366

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 367

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 368

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;CHLOROBENZENE;METHYL BUTYL KETONE;METHYL PROPIONATE;
FLAMMABILITY; HERCULES INC;BUTYL CHLORIDE;
REVIEW YEAR 2059

Item 369

ACCESSION NUMBER 307
FILE LOCATION GEN

BFG52998

22524122

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.WILGING, IT WAS SUBMITTED TO J OF AMERICAN WATER WORKS ASSOC (R.WILGING,+REVIEWER). PUBLICATION STATUS IS UNKNOWN.
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; *potable water*
REVIEW YEAR 1986

Item 370

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

Item 371

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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HELD TERMS ROYAL HOSPITAL ENGLAND;BRITISH J OF DERMATOLOGY;PVC POWDER; CHLORETHYLENE EPOXIDE;RAYNAUD'S SYNDROME;SCLERODERMA;HEPATOMEGALY; SPLENOMEGALY;

Item 372

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 WM,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;

Item 373

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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