

20898002

ITEM 1

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;
HELD TERMS PHARMACOKINETICS;
REVIEW YEAR MCL;MAXIMUM CONTAMINANT LEVEL;
1990

ITEM 2

ACCESSION NUMBER 2141
FILE LOCATION GEN
DOCUMENT TYPE EPA REPORT
TITLE OR SUBJECT HEALTH EFFECTS ASSESSMENT FOR VINYL CHLORIDE
AUTHOR/AFFILIATION NONE,NONE;
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 3

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;

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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 4

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 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 5

ACCESSION NUMBER 2110
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TRANSIENT HYPOXEMIA IN FIREMEN FOLLOWING INHALATION OF SMOKE
AUTHOR/AFFILIATION GENOVESE MG,NONE;TASHKIN DP,NONE;CHOPRA S,NONE;MORGAN M,NONE; MC ELROY C,NONE;
ORIGIN NONE,VOL 71 NO.4 PP.441-449;
DATE 1977, APRIL
ABSTRACT MILD TO MODERATELY SEVERE HYPOXEMIA WAS DOCUMENTED IN 19 OF 21 MOSTLY ASYMPTOMATIC FIREMEN WHO WERE EXPOSED TO DENSE SMOKE CONTAINING POLYVINYLCHLORIDE AND OTHER PULMONARY IRRITANTS. THE HYPOXEMIA WAS TRANSIENT,WITH NEARLY COMPLETE REVERSIBILITY WITHIN 24 HOURS. SUBSEQUENT TESTS FOR PULMONARY FUNCTION ONE MONTH LATER DEMONSTRATED THAT THIS TRANSIENT HYPOXEMIA WAS NOT RELATED TO PREVIOUS UNDERLYING PULMONARY DISEASE. THE POTENTIAL FOR SERIOUS COMPLICATIONS OF INHALATION OF SMOKE,PARTICULARLY SMOKE FROM BURNING PLASTICS, IS HEIGHTENED BY THE FREQUENT LACK OF SYMPTOMS ASSOCIATED WITH THIS TYPE OF EXPOSURE,DESPITE THE DEVELOPMENT OF MODERATELY SEVERE HYPOXEMIA IN ADDITION TO CARBOXYHEMOGLOBINEMIA. PRECAUTIONARY MEASURES SHOULD INCLUDE UNINTERRUPTED USE OF AN EFFECTIVE BREATHING APPARATUS BY FIREMEN EXPOSED TO SMOKE AND TO NOXIOUS FUMES AND TEMPORARY

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DESCRIPTORS ***** OXYGEN SUPPLEMENTATION,EVEN IN ASYMPTOMATIC FIREMEN, FOLLOWING EXPOSURE TO DENSE SMOKE. WHILE THE
HELD TERMS AUTHORS CONTEND THAT LARGE QUANTITIES OF PVC WERE BURNED, NO DOCUMENTATION IS PROVIDED. ALSO NOTE
REVIEW YEAR THE EDITORIAL BY WEBSTER (1977--AN#2108).
COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;FIRES;FIREFIGHTING;HUMAN;EFFECTS;ACUTE;BLOOD;
CHEST; OXYGEN;HYPOXEMIA
1995

ITEM 6

ACCESSION NUMBER 2109
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT RESPIRATORY STATUS OF LOS ANGELES FIREMEN: ONE-MONTH FOLLOW-UP AFTER INHALATION OF DENSE SMOKE
AUTHOR/AFFILIATION TASHKIN DP,NONE;GENOVESI MG,NONE;CHOPRA,NONE;COLLSON A,NONE; SIMMONS M,NONE;
ORIGIN NONE,VOL 71 NO.4 PP.445-449;
DATE 1977, APRIL
ABSTRACT STANDARDIZED RESPIRATORY QUESTIONNAIRE AND DETAILED PULMONARY FUNCTION TESTS WERE ADMINISTERED
TO 21 LOS ANGELES FIREMEN ONE MONTH FOLLOWING EXPOSURE TO THE COMBUSTION PRODUCTS OF
POLYVINYLCHLORIDE, WHICH HAD PRODUCED TRANSIENT HYPOXEMIA IN 19 OF THE FIREMEN. THE RESULTS OF
THESE STUDIES WERE COMPARED WITH THOSE OBTAINED IN A SAMPLE OF NONFIREMEN RESIDING IN THE LOS
ANGELES AREA WHO WERE MATCHED BY COMPUTER WITH THE FIREMEN FOR ANTHROPOMORPHIC CHARACTERISTICS
AND SMOKING STATUS. THE FREQUENCY OF RESPIRATORY SYMPTOMS,THE RESULTS OF SPIROMETRIC AND
PLETHYSMOGRAPHIC STUDIES, AND THE SINGLE-BREATH NITROGEN WASHOUT WERE SIMILAR IN THE FIREMEN,
COMPARED WITH THE MATCHED SAMPLE,WHEREAS CLOSING VOLUME WAS HIGHER IN THE MATCHED CONTROLS. THESE
FINDINGS SUGGEST THAT ALTHOUGH FIGHTING FIRES MAY RESULT IN ACUTE PULMONARY INJURY SECONDARY TO
DISCRETE EPISODES OF INHALATION OF SMOKE,IT DOES NOT APPEAR TO PREDISPOSE TO THE DEVELOPMENT OF
CHRONIC RESPIRATORY SYMPTOMS OR CHRONIC FUNCTIONAL RESPIRATORY IMPAIRMENT. WHILE THE AUTHORS
CONTEND THAT LARGE QUANTITIES OF PVC WERE BURNED,NO DOCUMENTATION IS PROVIDED. ALSO NOTE THE
EDITORIAL BY WEBSTER (1977--AN#2108).
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;FIRES;FIREFIGHTING; HUMAN;EFFECTS;ACUTE;
EPIDEMIOLOGY;
HELD TERMS CHEST;
REVIEW YEAR 1995

ITEM 7

ACCESSION NUMBER 2108
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SMOKE AND FIRE--1977
AUTHOR/AFFILIATION WEBSTER JR,NONE;
ORIGIN NONE,VOL 71 NO.4 PP.438;
DATE 1977, APRIL
ABSTRACT IN THEIR EDITORIAL COMMENTS ABOUT THE PAPER BY GENOVESI ET AL (1977) THE AUTHORS STATE: ALL
PHYSICIANS SHOULD BE AWARE OF THESE TWO POTENTIAL PROBLEMS WHEN TREATING VICTIMS OF FIRES,MAKING
SURE THAT OXYGEN IS ROUTINELY ADMINISTERED AS SOON AS POSSIBLE AND THAT THE PATIENT IS OBSERVED
CAREFULLY FOR (1) CEREBRAL COMPLICATIONS OF THE INHALATION OF CARBON MONOXIDE AND (2) THE
RESPIRATORY INSUFFICIENCY WHICH MAY ENSUE AFTER A DECEPTIVELY TRANQUIL INTERVAL. CARDIAC, AS WELL
AS PULMONARY, SYSTEMS ARE AFFECTED BY THE ALTERED PHYSIOLOGY WHICH RESULTS FROM THIS TOXIC
EXPOSURE, ESPECIALLY DURING EARLY CRITICAL PERIODS. TECHNIQUES FOR EVALUATION AND TREATMENT OF

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THE ADULT RESPIRATORY DISTRESS SYNDROME, NONCARDIAC PULMONARY EDEMA, CARDIAC FAILURE, AIRWAY INJURY, SEPSIS, LACTIC ACIDOSIS DUE TO CARBOXYHEMOGLOBINEMIA WITH TISSUE HYPOXIA AND SO FORTH. REGARDING THE TASHKIN ET AL (1977) ARTICLE THEY NOTE VARIANCE WITH PREVIOUS STUDIES BUT NOTE THAT FIREFIGHTERS HAVE A LOW MORBIDITY.

DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; PVC; FIRE; FIREFIGHTING; HUMAN; EFFECTS; ACUTE; EPIDEMIOLOGY;

HELD TERMS THERAPY; CHEST; NORTHWESTERN UNIV MEDICAL SCHOOL; NORTHWESTERN UNIV;
KWIC INDEX NUMBER 04154
REVIEW YEAR 1995

ITEM 8

ACCESSION NUMBER 2107
FILE LOCATION GEN
DOCUMENT TYPE PROCEEDINGS
TITLE OR SUBJECT EFFECTS UPON FIRE FIGHTERS AFTER EXPOSURE TO THE PRODUCTS OF DECOMPOSITION OF POLYVINYL CHLORIDE AND (2) TOXICITY IN THE FIRE FIGHTER'S ENVIRONMENT
AUTHOR/AFFILIATION DYER RF, NONE; ESCH VH, NONE;
ORIGIN NONE, FOURTH SYMPOSIUM ON THE HEALTH AND HAZARDS OF THE FIRE SERVICE (WASHINGTON, D.C.);
DATE 1977, APRIL 17-19
ABSTRACT DYER REPORTS EFFECTS IN FIREFIGHTERS WHICH THEY ATTRIBUTE TO PVC DECOMPOSITION PRODUCTS. HOWEVER, THE SYMPTOMS THEY DISCUSS ARE ONES WHICH CAN BE ATTRIBUTED TO COMBUSTION PRODUCTS OF COMMON NATURAL MATERIALS. ESCH STATES CONCERNS OVER THE TOXICITY OF PVC.

DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; FIRES; HUMAN; EFFECTS; ACUTE; PVC;
HELD TERMS FIREMEN; IAFF;
REVIEW YEAR 1995

ITEM 9

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 10

ACCESSION NUMBER 2076

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FILE LOCATION GEN
DOCUMENT TYPE CORR
TITLE OR SUBJECT KOROSEAL PETITION FOR LISTING WITH NEW YORK CITY(1984-1986)
AUTHOR/AFFILIATION ROBERTS BL,NONE;
ORIGIN NONE,TO HOUSING & DEVELOPMENT ADMIN. CITY OF NEW YORK;
DATE 1985, JANUARY 24
ABSTRACT THIS DOCUMENT CONTAINS DATA SUBMITTED TO NEW YORK CITY AND OTHER PERTINENT DOCUMENTS.
DESCRIPTORS ***** PVC;
HELD TERMS PVC WALLCOVERING;KOROSEAL;U.S. TESTING CO;
REVIEW YEAR 1995

ITEM 11

ACCESSION NUMBER 2070
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT EVALUATION OF THE TOXIC POTENTIAL OF MATERIALS--TOXICOLOGICAL INTERPRETATION OF ANALYSIS OF THERMOLYSIS PRODUCTS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE
DATE 1984, NOVEMBER 30
ABSTRACT THIS FRENCH STUDY EVALUATES THE TOXIC POTENTIAL OF MATERIALS IN CONFINED ATMOSPHERES AS MIGHT BE ENCOUNTERED ON SUBMARINES DURING A FIRE. RATS WERE EXPOSED TO PURE GASES (INCLUDING HCL) AND COMBUSTION GASES FROM VARIOUS ELECTRIC CABLES AND PAINT COATINGS FOR 15 MINUTES IN A 560 L CHAMBER. IN THE CASE OF HCL,THEY FOUND THAT THEY COULD NOT MAINTAIN THE DESIRED LEVELS AND WENT TO A 1.25 LITER CHAMBER. USING THE NOW DEFUNCT LOGIC OF ALARIE,THEY DETERMINED THAT THE RD50 (ED50) FOR HCL TO BE 43 PPM AND USED THIS AS THE CRITICAL TOXIC CONCENTRATION,CTCI. IN PART III SEC.1.7 THE AUTHORS STATE THAT 'THE CABLES ACOME PRESENT THE HIGHEST RISK DUE TO THE PRESENCE OF HCL ORIGINATING FROM PVC.'
DESCRIPTORS ***** PVC;HCL;COMBUSTION;TOXICITY;RATS;EFFECTS;
HELD TERMS RD50;CENTER FOR TECHNICAL SUBMARINE STUDIES & RESEARCH (FRANCE);
COMMENTS RKH(86) THESE AUTHORS ERRONEOUSLY USE THE RD50 AS THE CTCI.STUDIES BY POTTS AND LEDERER HAVE SHOWN THAT THIS IS NOT VALID.FURTHERMORE, THE FAA AND VI PRIMATE STUDIES SHOW THAT THE CTCI FOR HCL IS FAR HIGHER AND THAT HCL IS NOT INCAPACITATING.
REVIEW YEAR 1995

ITEM 12

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

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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 13

ACCESSION NUMBER 2067
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CARCINOGENICITY OF FORMALDEHYDE AND HYDROGEN CHLORIDE IN RATS
AUTHOR/AFFILIATION SELLAKUMAR AR,NONE;SNYDER CA,NONE;SOLOMON JJ,NONE;ALBERT RE, NONE;
ORIGIN TOX AND APPLIED,VOL 81 PP.401-406;
DATE 1985
ABSTRACT PREVIOUS STUDIES IN THIS LABORATORY HAVE SHOWN THAT THE COMBINED EXPOSURE OF HYDROGEN CHLORIDE

(HCL) AND FORMALDEHYDE VAPORS (HCHO) ELICITED A SIGNIFICANT INCIDENCE OF NASAL CANCER IN RATS. IN STUDIES PERFORMED ELSEWHERE, IT HAS BEEN DEMONSTRATED THAT EXPOSURE TO FORMALDEHYDE ALONE INDUCED A HIGH NASAL CANCER RESPONSE IN RATS. WE WISHED TO DETERMINE WHETHER CONCURRENT EXPOSURE OF HYDROGEN CHLORIDE WOULD ENHANCE THE TUMORIGENIC EFFECTS OF FORMALDEHYDE. TWO EXPOSURE TECHNIQUES WERE USED. IN ONE HYDROGEN CHLORIDE AND FORMALDEHYDE WERE PREMIXED AT HIGH CONCENTRATIONS BEFORE ENTRY INTO THE EXPOSURE CHAMBERS IN ORDER TO MAXIMIZE THE FORMATION OF REACTIVE ALKYLATING AGENTS. IN THE SECOND THE HYDROGEN CHLORIDE AND FORMALDEHYDE WERE INTRODUCED SEPARATELY INTO THE EXPOSURE CHAMBER. APPROPRIATE CONTROL EXPOSURES CONSISTING OF FORMALDEHYDE ALONE OR HYDROGEN CHLORIDE ALONE OR AIR ALONE WERE ALSO PERFORMED. THE RESULTS SHOW THAT NASAL CANCER INCIDENCES WERE INDUCED IN ALL ANIMALS RECEIVING HCHO REGARDLESS OF CONCURRENT EXPOSURE TO HYDROGEN CHLORIDE. THE TUMORS WERE PREDOMINANTLY SQUAMOUS CELL TYPE ARISING FROM THE ANTERIOR PORTION OF THE NASAL CAVITY. THIS STUDY DEMONSTRATES THAT HYDROGEN CHLORIDE DOES NOT APPRECIABLY INFLUENCE THE NASAL CARCINOGENICITY OF FORMALDEHYDE.

DESCRIPTORS ***** HYDROGEN CHLORIDE;RATS;CARCINOGENICITY;PVC;COMBUSTION;TOXICITY; EFFECTS;
HELD TERMS INSTITUTE OF ENVIRONMENTAL MEDICINE;SYNERGISM;
REVIEW YEAR 1995

ITEM 14

ACCESSION NUMBER 2063
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT MODELING OF TOXICOLOGICAL EFFECTS OF FIRE GASES: IV. INTOXICATION OF RATS BY CARBON MONOXIDE IN THE PRESENCE OF AN IRRITANT
AUTHOR/AFFILIATION HARTZELL GE,SOUTHWEST RESEARCH INSTITUTE;STACY HW,SAME;SWITZER WG,SAME;PRIEST DN,SAME;
ORIGIN UNKNOWN
DATE 1985
ABSTRACT THE AUTHORS FOUND THAT HCL IN THE PRESENCE OF CO DID NOT SIGNIFICANTLY EFFECT LETHALITY (LC50);

HOWEVER, MORE CO WAS REQUIRED TO CAUSE 50% INCAPACITATION (EC50) IN THE PRESENCE OF HCL. THIS WAS OBVIOUSLY THE RESULT OF THE RESPIRATORY DEPRESSION EFFECT OF HCL IN RODENTS. THE ANIMALS BREATHED LESS AND THEREFORE REQUIRED A HIGHER CONCENTRATION TO GET THE SAME EFFECT. THE AUTHORS SUGGESTED THAT ABOVE 4000PPM CO, HCL WOULD HAVE NO APPRECIABLE EFFECT.

DESCRIPTORS ***** PVC;HCL;CARBON MONOXIDE;EFFECTS;ACUTE;RATS;COMBUSTION;TOXICITY;
HELD TERMS INCAPACITATION;

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ITEM 15

ACCESSION NUMBER 2059
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EVALUATION OF THE PULMONARY EFFECTS OF HCL USING CO2 CHALLENGES IN GUINEA PIGS
AUTHOR/AFFILIATION BURLEIGH-FLAYER H, UNIV OF PITTSBURGH; WONG KL, SAME; ALARIE Y, SAME;
ORIGIN NONE, VOL 5 PP. 978-985;
DATE 1985
ABSTRACT ALARIE'S GROUP HAS EVALUATED THE PULMONARY TOXICITY OF HCL IN GUINEA PIGS USING THE CO2 CHALLENGE METHOD. ANIMALS WERE EXPOSED TO 320, 680, 1040, AND 1380 PPM FOR 30 MINUTES. THE AUTHORS REPORTED IMPAIRMENT OF THE RESPIRATORY FUNCTION AND MORPHOLOGICAL INJURY IN THE AIRWAYS AND ALVEOLAR REGION. IN THE DISCUSSION THEY CONCLUDED THAT PULMONARY DAMAGE WAS LESS SEVERE WITH HCL GAS THAN PVC SMOKE AND SPECULATED THAT THIS WAS A RESULT OF THE HCL ABSORBED ON THE SOOT.
DESCRIPTORS ***** PVC; HCL; PULMONARY FUNCTION; EFFECTS; RESPIRATORY EFFECTS; GUINEA PIGS; COMBUSTION; TOXICITY;
HELD TERMS CO2 CHALLENGE; ANIMAL MODEL;
COMMENTS RKH(85) THIS DIFFERS FROM OUR STUDIES WITH BABOONS IN THAT WE ARE NOT SEEING EVIDENCE OF SIGNIFICANT DEEP LUNG PENETRATIONS. ALSO AT SIMILAR DOSES THE BABOONS HAVE ALL SURVIVED WHILE SOME MORTALITY HAS BEEN NOTED IN GUINEA PIGS.
REVIEW YEAR 1995

ITEM 16

ACCESSION NUMBER 2058
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE SEARCH FOR EXPIRATORY OBSTRUCTION IN MEAT WRAPPERS STUDIED ON THE JOB
AUTHOR/AFFILIATION KRUMPE PE, NONE; FINLEY TN, NONE; MARTINEZ N, NONE;
ORIGIN AMERICAN REVIEW OF RESPIRATORY DISEASE, VOL 119 PP. 611-618;
DATE 1979
ABSTRACT WE STUDIED THE RESPIRATORY HISTORY QUESTIONNAIRE RESPONSES AND MAXIMAL EXPIRATORY FLOW-VOLUME CURVES IN MEAT WRAPPERS AND CONTROL SUBJECTS WHO HAD WORKED 12 PLUS OR MINUS 3 YEARS AT THEIR OCCUPATION; ALL SUBJECTS REGULARLY CUT POLYVINYL CHLORIDE FILM WITH A HOT WIRE AND WERE THUS EXPOSED TO PYROLYSIS FUMES ON THE JOB. CHANGES IN THE GROUP OF WRAPPERS WERE NOT SIGNIFICANTLY DIFFERENT FROM THE CONTROL GROUPS WHEN STUDIED BY ANALYSIS OF VARIANCE. THE WRAPPERS' RESPONSES UNDER REFRIGERATED CONDITIONS WERE NOT DIFFERENT FROM THOSE STUDIED AT ROOM TEMPERATURE. OUR STUDY DOES NOT PRECLUDE THE POSSIBILITY THAT CERTAIN HYPERSENSITIVE PERSONS MAY DEVELOP BRONCHOSPASM AFTER EXPOSURE TO FUMES OF POLYVINYL CHLORIDE FILM. HOWEVER, DOCUMENTATION OF NORMAL BASELINE PULMONARY FUNCTION STUDIES AND THE LOW INCIDENCE OF REACTIVE BRONCHOSPASM AFTER ON-THE-JOB EXPOSURE TO POLYVINYL CHLORIDE PYROLYSIS FUMES ARGUE AGAINST THE PRESENCE OF A MAJOR RESPIRATORY HAZARD IN THIS OCCUPATION.
DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; PVC; HUMAN; EFFECTS; LUNG; MEAT-WRAPPERS ASTHMA;
REVIEW YEAR 1995

ITEM 17

ACCESSION NUMBER 2057
FILE LOCATION GEN

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20898009

DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT POLYVINYL CHLORIDE FILM THERMAL DECOMPOSITION PRODUCTS AS AN OCCUPATIONAL ILLNESS: 2.CLINICAL STUDIES
AUTHOR/AFFILIATION BROOKS SM,UNIV OF CINCINNATI;VANDERVORT R,NONE;
ORIGIN J OF OCCUPATIONAL MEDICINE,VOL 19 NO.3;
DATE 1977, MARCH
ABSTRACT EXPOSURE TO AIR CONTAMINANTS EMITTED INTO THE MEAT WRAPPING ENVIRONMENT MAY PRODUCE ACUTE HEALTH EFFECTS IN SOME INDIVIDUALS. THE EFFECTS RELATE PRIMARILY TO EYE,NOSE AND THROAT IRRITATION. INDIVIDUALS WITH BRONCHIAL ASTHMA AND OTHER TYPES OF CHRONIC OBSTRUCTIVE RESPIRATORY DISEASE MAY DEVELOP BRONCHSPASM AS THE RESULT OF EXPOSURE TO THE IRRITANTS EMITTED.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;HUMAN;EFFECTS;LUNG; MEAT-WRAPPERS ASTHMA;
REVIEW YEAR 1995

ITEM 18

ACCESSION NUMBER 2056
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT POLYVINYL CHLORIDE FILM THERMAL DECOMPOSITION PRODUCTS AS AN OCCUPATIONAL ILLNESS : 1. ENVIRONMENTAL EXPOSURES AND TOXICOLOGY
AUTHOR/AFFILIATION VANDERVORT R,NONE;BROOKS SM,UNIV OF CINCINNATI;
ORIGIN J OF OCCUPATIONAL MEDICINE,VOL 19 NO.3 PP.189-191;
DATE 1977, MARCH
ABSTRACT IN THE PROCESS OF CUTTING PVC FILM WITH A HOT-WIRE,AN AEROSOL OF DI-2-ETHYLHEXYL ADIPATE IS FORMED.IT IS POSSIBLE THAT SOME OF THE HYDROGEN CHLORIDE EMITTED ABSORBS TO AEROSOL PARTICLES OF DI-2-ETHYLHEXYL ADIPATE.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;HUMAN;EFFECTS;LUNG; MEAT-WRAPPERS ASTHMA;
REVIEW YEAR 1995

ITEM 19

ACCESSION NUMBER 2055
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT CONSIDERTIONS ON ETIOLOGIC FACTORS IN MEAT WRAPPERS' ASTHMA
AUTHOR/AFFILIATION LILIS R,CITY UNIV OF NEW YORK;
ORIGIN JAMA,VOL 238 NO.2 PP.129;
DATE 1977, JULY 11
ABSTRACT IRRITATIVE RESPIRATORY SYMPTOMS AND THE MEAT WRAPPERS' ASTHMA SYNDROME HAVE GENERALLY BEEN THOUGHT TO BE ETIOLOGICALLY RELATED TO DECOMPOSITION PRODUCTS OF POLYVINYL CHLORIDE (PVC),SUCH AS HYDROCHLORIC ACID AND/OR MINUTE AMOUNTS OF PHOSGENE,AND NOT TO PVC ITSELF OR TO THE MONOMER VINYL CHLORIDE.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;HUMAN;EFFECTS;LUNG; MEAT-WRAPPERS ASTHMA;
REVIEW YEAR 1995

ITEM 20

ACCESSION NUMBER 2054
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL

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 ORDER NUMBER 860827-135259-WIZ -001-001
 PAGE 9 SET 4 WITH 385 OF 385 ITEMS

BFG52699

TITLE OR SUBJECT RESPIRATORY HEALTH AND POLYVINYL CHLORIDE FUMES
 AUTHOR/AFFILIATION JONES RN,NONE;WEILL H,SAME;
 ORIGIN JAMA,VOL 237 NO.17 PP.1826;
 DATE 1977, APRIL 25
 ABSTRACT IN 1975, WE COLLECTED DATA ON RESPIRATORY SYMPTOMS AND LUNG FUNCTION FROM 150 EMPLOYEES OF A SUPERMARKET CHAIN IN NEW ORLEANS. IN 1972 TO 1973, THE MANAGEMENT REPLACED MOST OF THE HOT-WIRE WRAPPING MACHINES WITH MACHINES EQUIPPED WITH MECHANICAL FILM CUTTERS (BUT THESE ARE FITTED WITH HOT PLATES TO SEAL THE FILM, AS ARE THE OLDER MACHINES. IN THIS STUDY POPULATION, JOB-RELATED SYMPTOMS WERE RARE AND WERE NOT ATTRIBUTABLE TO PVC EXPOSURE. WE ARE AWARE THAT THESE DATA MAY NOT APPLY TO OTHER WORKING POPULATIONS USING DIFFERENT MACHINERY AND WORK PRACTICES.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;HUMAN;EFFECTS; MEAT-WRAPPERS ASTHMA;LUNG;
 HELD TERMS TULANE UNIV
 REVIEW YEAR 1995

ITEM 21

ACCESSION NUMBER 2053
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT RESPIRATORY ILLNESS IN MEAT WRAPPERS
 AUTHOR/AFFILIATION FALK H,DEPT OF HEALTH EDUCATION AND WELFARE;PORTNOY B,UNIV OF TEXAS;
 ORIGIN JAMA,VOL 235 NO.9 PP.915-943;
 DATE 1976, MARCH 1
 ABSTRACT A QUESTIONNAIRE SURVEY WAS ADMINISTERED IN 152 HOUSTON, TEXAS SUPERMARKETS TO ASSESS THE PREVALENCE OF RESPIRATORY SYMPTOMS IN MEAT WRAPPERS EXPOSED TO THE THERMAL DECOMPOSITION FUMES OF PVC FILM WRAP AND TWO SUPERMARKET CONTROL GROUPS (CHECKERS & MEAT CUTTERS). MEAT WRAPPERS HAD INCREASED RESPIRATORY SYMPTOMATOLOGY, WITH 12% OF SMOKING WRAPPERS (VERSUS 6% AND 2% OF CONTROLS) AND 5% OF NON-SMOKING WRAPPERS (VERSUS 0% AND 0% OF CONTROLS) HAVING MULTIPLE RESPIRATORY SYMPTOMS. IT IS PROBABLE THAT A LARGE NUMBER OF MEAT WRAPPERS HAVE MILD RESPIRATORY SYMPTOMS WITH SOME PROGRESSING TO MORE SEVERE RESPIRATORY IMPAIRMENT AND/OR CLINICAL ASTHMA. PREVENTIVE MEASURES TO REDUCE OR ELIMINATE EXPOSURE TO FILM WRAP FUMES, SUCH AS USE OF BLADE MACHINES OR IMPROVED VENTILATION, NEED TO BE INSTITUTED.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;HUMAN;EFFECTS; MEAT-WRAPPERS ASTHMA;LUNG;
 COMMENTS RKH(85) ALSO REFER TO AN-109 FOR THE PAPER.
 REVIEW YEAR 1995

ITEM 22

ACCESSION NUMBER 2052
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT MEAT-WRAPPERS'S RESPIRATORY TRACT DISEASE
 AUTHOR/AFFILIATION HUSSEY HH,NONE;
 ORIGIN JAMA,VOL 235 NO.9 PP.943;
 DATE 1976, MARCH 1
 ABSTRACT PREVENTION OF AN ILLNESS THAT HAS PROVED TO BE SURPRISINGLY PREVALENT MIGHT INCLUDE THE INSTALLATION OF PROPER VENTILATING EQUIPMENT AND USE OF LOWER-TEMPERATURE CUTTING WIRES. HOWEVER, FALK AND PORTNOY EMPHASIZE THAT THE BEST SOLUTION TO THE PROBLEM WOULD BE TO USE MECHANICAL-BLADE CUTTING MACHINES THAT DO NOT CREATE FUMES.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;HUMAN;EFFECTS;LUNG; MEAT-WRAPPERS ASTHMA;

Omit

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REVIEW YEAR 1995

ITEM 23

ACCESSION NUMBER 2051
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT MEAT-WRAPPERS' ASTHMA
AUTHOR/AFFILIATION AELONY Y, UNIV OF CALIFORNIA;
ORIGIN JAMA, VOL 236 NO.10 PP.1117-1118;
DATE 1976, SEPT 6
ABSTRACT SEVERAL OTHER PATIENTS WHO WERE RECEIVING DISABILITY BENEFITS ELSEWHERE FOR "MEAT-WRAPPERS' ASTHMA" WERE FOUND TO HAVE NORMAL PULMONARY FUNCTION AT THE TIME OF REFERRAL TO ME, SUGGESTING REVERSIBILITY OF THE DISEASE PROCESS AFTER CESSATION OF EXPOSURE TO PVC PYROLYSIS PRODUCTS.
DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; PVC; HUMAN; EFFECTS; LUNG; MEAT-WRAPPERS ASTHMA;
REVIEW YEAR 1995

ITEM 24

ACCESSION NUMBER 2050
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT NIOSH REPORT OF HEALTH HAZARDS AND MEAT-WRAPPERS ASTHMA FROM PVC FILMS: REPORTS 72-53, 54, 55, 56, 57, 58
AUTHOR/AFFILIATION NONE, NONE;
ORIGIN NIOSH
DATE 1973
ABSTRACT A LIMITED STUDY OF MEAT WRAPPERS WAS CONDUCTED. CLINICAL SYMPTOMATOLOGY COLLECTED FROM TWO GEOGRAPHICALLY SEPARATED GROUPS OF MEAT WRAPPERS IS PRESENTED (18 WRAPPERS FROM SEATTLE, WASHINGTON AND VICINITY; 17 WRAPPERS FROM LOUISVILLE, KENTUCKY). CLINICAL SYMPTOMATOLOGY COLLECTED FROM OTHER MEDICAL RESEARCHERS IS DISCUSSED. PRE- AND POST-SHIFT PULMONARY FUNCTION TEST RESULTS ARE PRESENTED FOR A GROUP OF 17 BASICALLY HEALTHY MEAT WRAPPERS AND A GROUP OF 20 CONTROLS. NO SIGNIFICANT DIFFERENCE BETWEEN EXPOSED MEAT WRAPPERS AND CONTROLS WAS FOUND AFTER ONE SHIFT'S EXPOSURE TO WRAPPING MEAT WITH PVC FILM. NO ENVIRONMENTAL MEASUREMENTS WERE MADE TO CHARACTERIZE EMPLOYEE EXPOSURES DUE TO THE LACK OF SUITABLE METHODS FOR MEASURING BREATHING ZONE CONCENTRATIONS OF DI-2-ETHYL HEXYL ADIPATE AND OTHER PVC FILM THERMAL DECOMPOSITION PRODUCTS ENCOUNTERED IN RETAIL MEAT WRAPPING.
DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; PVC; HUMAN; EFFECTS; LUNG; MEAT-WRAPPERS ASTHMA;
KWIC INDEX NUMBER 00072
REVIEW YEAR 1995

ITEM 25

ACCESSION NUMBER 2049
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT POLYVINYL CHLORIDE MEAT WRAPPING FILM STUDY
AUTHOR/AFFILIATION VANDERVOORT R, HEW;
ORIGIN OSHA, FOR FDA;
DATE 1970

BFG52700

Omit

Omit

Omit

2 198012

ABSTRACT

A STUDY WAS INITIATED AS A RESULT OF COMPLAINTS ASSOCIATED WITH FUMES PRODUCED BY HOT WIRE CUTTING OF FILM IN MEAT WRAPPING OPERATIONS. THE MEAT WRAPPING MATERIAL STUDIED WAS POLYVINYL CHLORIDE FILM. ATMOSPHERIC SAMPLES COLLECTED IN THE WORKING ENVIRONMENT INDICATED ONLY TRACE AMOUNTS OF HYDROGEN CHLORIDE. AN ANALYSIS OF THE FILM THERMAL DECOMPOSITION PRODUCTS WAS CONDUCTED. TRACE AMOUNTS OF SEVERAL COMPOUNDS INCLUDING BENZYL CHLORIDE WERE IDENTIFIED. IT WAS DETERMINED THAT VOLATILE COMPOUNDS FROM FILM DECOMPOSITION WERE NOT PRODUCED IN SUFFICIENT QUANTITY TO EXCEED THRESHOLD LIMIT VALUES. RESULTS INDICATE THAT POLYVINYL CHLORIDE FILM FUMES PRESENT NO APPARENT HEALTH HAZARD TO MEAT WRAPPERS WITH NO PRIOR RESPIRATORY ILLNESS. CONTROL RECOMMENDATIONS ARE GIVEN FOR CASES WHERE WORKERS HAVE A PECULIAR SENSITIVITY.

DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; PVC; HUMAN; EFFECTS; LUNG; MEAT-WRAPPERS ASTHMA;
 REVIEW YEAR 1996

ITEM 26

ACCESSION NUMBER 2048
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT RESPIRATORY ILLNESS CAUSED BY OVERHEATING OF POLYVINYL CHLORIDE
 AUTHOR/AFFILIATION FRONBERG B, NIOSH; JOHNSON PL, SAME; LANDRIGAN PJ, SAME;
 ORIGIN BRITISH J OF INDUSTRIAL MEDICINE, VOL 39 PP. 239-243;
 DATE 1982
 ABSTRACT ON 9 AUGUST 1979, 62 (30.8%) OF 201 WORKERS AND ONE OF 60 MANAGEMENT PERSONNEL IN A POLYVINYL CHLORIDE (PVC) FABRICATING PLANT DEVELOPED ACUTE UPPER AND LOWER RESPIRATORY IRRITATION, HEADACHE, NAUSEA, AND FAINTING. WE ATTRIBUTED THE OUTBREAK TO EXPOSURE TO TOXIC HCL AND CO AND REJECTED THE HYPOTHESIS OF MASS PSYCHOGENIC ILLNESS. PULMONARY FUNCTION TESTS (PFT) WERE CONDUCTED. HOWEVER, BECAUSE THE GROUP WITH PERSISTENT SYMPTOMS CONTAINED AN EXCESS OF INDIVIDUALS WITH PREVIOUS RESPIRATORY ILLNESS AND BECAUSE NO BASELINE WAS AVAILABLE, THE SIGNIFICANCE OF THE PFT IS UNKNOWN.

DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; PVC; HUMAN; EFFECTS; LUNG; EPIDEMIOLOGY;
 REVIEW YEAR 1995

ITEM 27

ACCESSION NUMBER 2043
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT OVERVIEW OF FIRE EXPERIENCE IN THE PLASTIC INDUSTRY
 AUTHOR/AFFILIATION CLARK CA, BFG;
 ORIGIN BFG
 DATE 1982
 ABSTRACT

ALTHOUGH PVC AND CPVC CONSUMPTION HAS INCREASED DRAMATICALLY OVER THE LAST 40 YEARS, THE NUMBER OF FIRE DEATHS HAS REMAINED QUITE STEADY AND HAS EVEN BEEN DECREASING SINCE 1975. THIS DATA DOES NOT SUPPORT THE CONTENTION THAT PLASTICS HAVE MADE FIRE MORE HAZARDOUS AND HAVE INCREASED FATALITIES.

DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; FIRES; PVC; CPVC;
 HELD TERMS FATALITIES; CONSUMPTION;
 REVIEW YEAR 1995

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ACCESSION NUMBER 2042

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FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT 1. FIRE CASUALTY STUDIES
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE,PP.12-17;
 DATE 1977, JANUARY
 ABSTRACT THE AUTHORS REPORT THE RESULTS OF ANALYSES OF 206 FIRE FATALITIES REPRESENTING APPROXIMATELY 50% OF ALL FIRE FATALITIES THAT OCCURRED IN MARYLAND FROM 1971-74.CARBON MONOXIDE POISONING (MANY TIMES EXACERBATED BY ALCOHOL,PRE-EXISTING HEART DISEASE,AND/OR BURNS) WAS FOUND TO BE THE MAJOR CAUSE OF DEATH.THEY ALSO REPORTED THAT SYNTHETIC MATERIALS WERE A SIGNIFICANT FACTOR IN FIRE DEATHS IN MARYLAND.
 DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;HYDROGEN CHLORIDE; HYDROGEN CYANIDE;HUMAN;EFFECTS; FIRES;
 HELD TERMS FATALITIES;SYNTHETIC PRODUCTS;NATURAL PRODUCTS;FIRELINE;
 REVIEW YEAR 1995

ITEM 29

ACCESSION NUMBER 2038
 FILE LOCATION GEN
 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 30

ACCESSION NUMBER 2034
 FILE LOCATION GEN

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DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT THE INFLUENCE OF SOME BYPRODUCTS FROM VINYL CHLORIDE ON ON FEPRODUCTION ON FERTILIZATION, DEVELOPMENT AND LARVAL ND HERRISURVIVAL ON PLAICE,COD AND HERRING EGGS
 AUTHOR/AFFILIATION BRAATEN B,NONE;MOLLERUD FE,NONE;SOLEMDAL P,NONE;
 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);
 KWIC INDEX NUMBER 01016PUBL
 REVIEW YEAR 1991

ITEM 31

ACCESSION NUMBER 2003
 FILE LOCATION GEN
 DOCUMENT TYPE COMPANY CORR
 TITLE OR SUBJECT COMBUSTION PRODUCTS OF PVC AND THEIR EFFECTS, PARTICULARLY L HCL
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN BFG
 DATE 1972
 DESCRIPTORS ***** POLYVINYL CHLORIDE; HYDROGEN CHLORIDE; INHALATION; CARBON MONOXIDE;
 KWIC INDEX NUMBER 00914CORR
 REVIEW YEAR 1990

ITEM 32

ACCESSION NUMBER 1978
 FILE LOCATION GEN
 DOCUMENT TYPE COMPANY CORR
 TITLE OR SUBJECT MODIFIERS FOR POLYVINYL CHLORIDE FOOD CONTACT ARTICLES .2597 CFR121.2597
 AUTHOR/AFFILIATION FELSKE FG,ROHM AND HAAS;
 ORIGIN ROHM AND HAAS,TO BFG;
 DATE 1967, OCTOBER 18
 ABSTRACT ACRYLOID K-120N (SERIAL 430587), ACRYLOID KN-228 (SERIAL 633577),EXPERIMENTAL POLYMER 6607-XP, EXPERIMENTAL POLYMER 55D-42 (SERIAL 475176) ARE PERMITTED UNDER SECTION CFR121.2597.
 DESCRIPTORS ***** FDA ACCEPTANCE; PVC;
 HELD TERMS CFR121.2597; SERIAL 475176; SERIAL 430587; SERIAL 633577; EXPERIMENTAL POLYMER 55D-42; EXPERIMENTAL POLYMER 6607-XP; ACRYLOID KM-227; ACRYLOID KM-228; EXPERIMENTAL POLYMER; CFR121.2597; ACRYLOID K-120N;
 KWIC INDEX NUMBER 00861CORR
 REVIEW YEAR 1988

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ACCESSION NUMBER 1945
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT TOXICOLOGIC REPORT ON GEON 83403
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,FOR BFG;
DATE 1970, MAY 7
ABSTRACT GEON 83403: NO DEATH IP OR IV IN MICE:NO SIGNIFICANT REACTION IN RABBIT INTRACUTANEOUS REACTIVITY TEST; NO SIGNIFICANT TISSUE REACTION IN RABBIT INTRAMUSCULAR IMPLANT STUDY.
DESCRIPTORS ***** TOXICITY DATA; IP; PVC; IV; RABBITS; IM;
HELD TERMS GEON 83403; IMPLANT;INTRACUTANEOUS;HUNTINGDON RESEARCH CENTER;
KWIC INDEX NUMBER 00793TOXS
REVIEW YEAR 1990

ITEM 34

ACCESSION NUMBER 1943
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT TOXICOLOGIC REPORT ON X-1053 PLASTIC INFLATABLE CATHETERS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE
DATE 1969
ABSTRACT PVC CATHETERS TOXICITY DATA SHOWED NO SIGNIFICANT TOXICITY OF ELUATES IV OR IP (MICE); INTRACUTANEOUS REACTIVITY TEST DID NOT SHOW ANY REACTION;INTRAMUSCULAR IMPLANTS REMAINED FREE OF SIGNIFICANT TISSUE REACTIONS.
DESCRIPTORS ***** IV; IP; PVC; RABBITS; MICE; IM;
HELD TERMS CATHETERS; IMPLANTS;HUNTINGDON RESEARCH CENTER;INTRACUTANEOUS;
KWIC INDEX NUMBER 00790TOXS
REVIEW YEAR 1991

ITEM 35

ACCESSION NUMBER 1939
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT POLYVINYL CHLORIDE PULMONARY DISEASE
AUTHOR/AFFILIATION PINSKER KL,NONE;FELL S,SAME;KAMHOLZ SL,SAME;
ORIGIN NONE,VOL 80 NO.6 PP.768;
DATE 1981, DECEMBER
ABSTRACT THE ARTICLE BY CORDASCO ET AL (CHEST,1981;78:828-34) AND THE ACCOMPANYING COMMENTARY B LILIS (78:826-28) PROVIDE AN EXCELLENT REVIEW OF THE PULMONARY MANIFESTATIONS OF POLYVINYL CHLORIDE(PVC) EXPOSURE. PULMONOLOGISTS MUST BE AWARE OF THE CONSTANTLY EXPANDING NUMBER OF POTENTIALLY DANGEROUS INDUSTRIAL, AND OFTEN UBIQUITOUS, ENVIRONMENTAL HAZARDS.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;HUMAN;EFFECTS;LUNG; BLOOD;
HELD TERMS HYPOXEMIA;CHEST;ALBERT EINSTEIN COLLEGE OF MEDICINE;
REVIEW YEAR 1995

ITEM 36

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ACCESSION NUMBER 1930
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT A CRITIQUE OF TWO PAPERS ON "DANGERS OF POLYVINYL CHLORIDE WIRE INSULATION DECOMPOSITION"
 AUTHOR/AFFILIATION CLEVELAND FP,NONE;
 ORIGIN J OF COMBUSTION TOXICOLOGY,VOL 9 PP.115-120;
 DATE 1982, AUGUST
 ABSTRACT IN CONCLUSION, IT IS ALMOST IMPOSSIBLE TO ACCEPT ANY PORTION OF THE PAPERS AS HAVING ANY DOCUMENTED, FACTUAL INFORMATION TO BE USED FOR REFERENCE BY ANY PERSON INTERESTED IN THERMAL DECOMPOSITION AND THE HEALTH EFFECTS OF DECOMPOSITION PRODUCTS. BOTH PAPERS ARE POORLY PRESENTED, DO NOT REPRESENT A SCIENTIFIC INVESTIGATION. AND DO NOT DEMONSTRATE AWARENESS OF THE CONTENT OF THE REFERENCES .ALTHOUGH THESE PAPERS ARE UNLIKELY TO IMPRESS ANY PROFESSIONALS, THE SAD FACT IS THAT SUCH MISINFORMATION CAN RESULT IN UNFOUNDED ALARM IN THE LAY PUBLIC WHO MAY READ THIS.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;FIRES;HUMAN;EFFECTS;
 REVIEW YEAR 1995

ITEM 37

ACCESSION NUMBER 1928
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT POLYVINYL CHLORIDE WIRE INSULATION DECOMPOSITION II:CONSIDERATION OF LONG TERM HEALTH EFFECTS FROM CHLORINATED HYDROCARBONS
 AUTHOR/AFFILIATION WALLACE D,NONE; NELSON N,NONE;GATES T,NONE;
 ORIGIN J OF COMBUSTION TOXICOLOGY,VOL 9 PP.105-112
 DATE 1982, MAY
 ABSTRACT THE AUTHOR CONTENDS THAT HEALTH EFFECTS NOTED IN THE NYC TELEPHONE FIRE AND THE BEVERLY HILLS SUPPER CLUB FIRE ARE DUE TO PVC. THIS IS A VERY POORLY WRITTEN REPORT AND A POORLY CONDUCTED SURVEY. NUMEROUS REFERENCES PROVIDED DO NOT SUPPORT OR EVEN RELATE TO THE STATEMENTS MADE. THE AUTHOR DISPLAYS A COMPLETE LACK OF UNDERSTANDING OF TOXICOLOGY OR EPIDEMIOLOGY. THE CRITIQUE OF THIS PAPER BY DR. CLEVELAND (1982) DISCUSSES THE MANY FLAWS. WALLACE STUDY OF THE NYC TELEPHONE FIRE HAS ALSO BEEN CRITICIZED BY NIOSH(1980).

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;FIRES;PVC;HUMAN;EFFECTS;
 REVIEW YEAR 1995

ITEM 38

ACCESSION NUMBER 1927
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT DANGERS OF POLYVINYL CHLORIDE WIRE INSULATION DECOMPOSITION. 1.LONG TERM HEALTH IMPAIRMENTS: STUDIES OF FIREFIGHTERS OF THE 1975 NEW YORK TELEPHONE FIRE AND OF SURVIVORS OF THE 1977 BEVERLY HILLS SUPPER CLUB FIRE
 AUTHOR/AFFILIATION WALLACE DN,NONE;
 ORIGIN J OF COMBUSTION TOXICOLOGY,VOL 8 PP.205;
 DATE 1981, NOVEMBER
 ABSTRACT THE AUTHOR CONTENDS THAT HEALTH EFFECTS NOTED IN THE NYC TELEPHONE FIRE AND THE BEVERLY HILLS SUPPER CLUB FIRE ARE DUE TO PVC. THIS IS A VERY POORLY WRITTEN REPORT AND A POORLY CONDUCTED SURVEY. NUMEROUS REFERENCES PROVIDED DO NOT SUPPORT OR EVEN RELATE TO THE STATEMENTS MADE. THE AUTHOR DISPLAYS A COMPLETE LACK OF UNDERSTANDING OF TOXICOLOGY OR EPIDEMIOLOGY. THE CRITIQUE OF

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THIS PAPERY BY DR. CLEVELAND (1982) DISCUSSES THE MANY FLAMS. WALLACE STUDY OF THE NYC TELEPHONE FIRE HAS ALSO BEEN CRITICIZED BY NIOSH (1980).

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;FIRES;PVC;HUMAN;EFFECTS;
REVIEW YEAR 1995

ITEM 39

ACCESSION NUMBER 1919
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT POLYVINYL CHLORIDE TOXICITY IN FIRES;HYDROGEN CHLORIDE TOXICITY IN FIRE FIGHTERS
AUTHOR/AFFILIATION DYER RF,NONE;ESCH VH,NONE;
ORIGIN JAMA,VOL 235 NO.4 PP.393-397;
DATE 1976
ABSTRACT

THE AUTHORS CONTEND THAT PVC/HCL HAS BEEN IMPLICATED AS CAUSING A SERIOUS PROBLEM IN FIRE FIGHTING AND REPORT THAT 175 FIREFIGHTERS EXPERIENCED SYMPTOMS RESULTING FROM INHALING PVC DECOMPOSITION PRODUCTS. HOWEVER, THE FACTS ARE THAT THERE IS VERY LITTLE BASIS PRESENTED WHICH WOULD SUPPORT SUCH BOLD CONCLUSIONS. THE AUTHORS FAIL TO DOCUMENT THAT PVC WAS PRESENT AS OPPOSED TO SOME OTHER PLASTIC. HCL IS PRESENTED AS UNIQUE TO PVC.NO CONSIDERATION IS GIVEN TO THE FACT THAT HCL CAN BE PRODUCED BY OTHER POLYMERS OR FLAME RETARDANTS. FURTHERMORE,THE AUTHORS FAIL TO POINT OUT OR TO RECOGNIZE THAT THE SYMPTOMS REPORTED ARE NON-SPECIFIC AND CAN BE CAUSED BY THE COMBUSTION OF COMMON MATERIALS SUCH AS WOOD (ZIKRIA ET AL, 1972 AND COPE & RHINELANDER, 1943).ANOTHER PROBLEM WITH THIS REPORT IS THAT THE AUTHORS MIXUP THE EFFECTS OF HCL AND CO. THEY SUGGEST THAT HCL EFFECTS CORONARY CIRCULATION WHERE,IN FACT, IT IS WELL DOCUMENTED THAT CO PLACES A STRESS ON CORONARY SUFFICIENCY AND CAN HAVE A DEMONSTRABLE EFFECT ON PEOPLE WITH CORONARY HEART DISEASE. THE RECOMMENDATION OF USING A SELF-CONTAINED BREATHING APPARATUS IS A GOOD ONE,BUT NOT JUST BECAUSE OF PVC.IT IS NOW RECOGNIZED THAT THIS SHOULD BE FOLLOWED FOR ALL FIRES.

DESCRIPTORS ***** COMBUSTION;TOXICITY;PVC;HCL;HUMAN;EFFECTS;FIRES;ACUTE;LUNG; HEART;
KWIC INDEX NUMBER 03998
REVIEW YEAR 1995

ITEM 40

ACCESSION NUMBER 1918
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ACUTE INHALATION-INTOXICATION BY COMBUSTION OF POLYVINYLCHLORIDE
AUTHOR/AFFILIATION COLARDYN F,NONE;VAN DER STRAETEN M,SAME;LAMONT H,SAME; VAN PETEGHEM TH,SAME;
ORIGIN INTERNATIONAL ARCHIVES OF OCCUPATIONAL & ENVIRONMENTAL HEALTH, VOL 38 PP.121-127;
DATE 1976
ABSTRACT

THE PULMONARY EFFECTS OF AN ACUTE INTOXICATION BY INHALATION OF GASES PRODUCED BY COMBUSTION OF POLYVINYLCHLORIDE ARE STUDIED IN 20 PERSONS.INITIALY EACH SUBJECT SHOWED A SYNDROME OF ACUTE OBSTRUCTIVE LUNG DISEASE. AFTER A FOLLOW-UP PERIOD OF 3 MONTHS RESIDUAL INJURIES SEEMED TO PERSIST.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;FIRES;HUMAN;EFFECTS; PVC;LUNG;ACUTE;
HELD TERMS ELECTRICAL WIRE;
KWIC INDEX NUMBER 04245
REVIEW YEAR 1995

BFG52706

ITEM 41

ACCESSION NUMBER 1867
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THROMBOGENESIS ASSOCIATED WITH SWAN-GANZ CATHETERS
AUTHOR/AFFILIATION HOAR PF,NONE;STONE JG,SAME;WICKS AE,SAME; EDIE RN,SAME;SCHOLLES JV,SAME;
ORIGIN NONE,VOL 48 NO.6 PP:445-447;
DATE 1978, JUNE
DESCRIPTORS ***** THROMBOCYTOPENIA;PVC;BLOOD;ARTERY;
HELD TERMS CATHETERS;SWAN-GANZ CATHETER;PLATELETS;THROMBOGENESIS;COLUMBIA UNIV;
REVIEW YEAR 1990

ITEM 42

ACCESSION NUMBER 1866
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT BALLOON FLOTATION CATHETERS: THEIR USE IN HEMODYNAMIC MONITORING IN CLINICAL PRACTICE
AUTHOR/AFFILIATION SWAN HJC,NONE;
ORIGIN JAMA,VOL 233 NO.8 PP.865-867;
DATE 1975, AUGUST 25
ABSTRACT SWAN-GANZ CATHETERS USE AND HEMODYNAMIC MONITORING IN CLINICAL PRACTICE DISCUSSION.
DESCRIPTORS ***** THROMBOCYTOPENIA;BLOOD;PVC;ARTERY;
HELD TERMS THROMBOGENESIS;CATHETER;SWAN-GANZ CATHETER;PLATELETS;
REVIEW YEAR 1990

ITEM 43

ACCESSION NUMBER 1865
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THROMBOCYTOPENIA AND ALTERED PLATELET KINETICS ASSOCIATED WITH PROLONGED PULMONARY-ARTERY
CATHETERIZATION IN THE DOG
AUTHOR/AFFILIATION RICHMAN KA,NONE;KIM YL,NONE;MARSHALL BE,NONE;
ORIGIN NONE,VOL 53 NO.2 PP.101-105;
DATE 1980, AUGUST
ABSTRACT THE AUTHORS STUDIED PLATELET KINETICS IN HEALTHY DOGS SUBJECTED TO PULMONARY-ARTERY (SWAN-GANZ)
CATHETERIZATION. SIGNIFICANT THROMBOCYTOPENIA WITH DECREASED PLATELET SURVIVAL IS ASSOCIATED WITH
THE USE OF SWAN-GANZ CATHETERS IN DOGS.
DESCRIPTORS ***** THROMBOCYTOPENIA;ARTERY;BLOOD;PVC;
HELD TERMS SWAN-GANZ CATHETER;CATHETER;PLATELETS;THROMBOGENESIS;UNIV OF PENNSYLVANIA HOSPITAL;UNIV OF
PENNSYLVANIA;NATIONAL UNIV (SEOUL);
REVIEW YEAR 1990

ITEM 44

ACCESSION NUMBER 1864
FILE LOCATION GEN

BFG52707

DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT INDWELLING PULMONARY ARTERY CATHETERS: THEIR RELATIONSHIP TO ASEPTIC THROMBOTIC ENDOCARDIAL VEGETATIONS
AUTHOR/AFFILIATION THORSTEINSSON SB,NONE;MUSHER DM,NONE;FAGAN T,NONE;
ORIGIN JAMA,VOL 233 NO.8 PP.893-894;
DATE 1975, AUGUST 25
ABSTRACT TO ASSESS THE INCIDENCE OF ASEPTIC THROMBOTIC ENDOCARDIAL VEGETATIONS (TEV) AFTER PULMONARY ARTERY CATHETERIZATION WITH SWAN-GANZ CATHETERS WE REVIEWED ALL AUTOPSY REPORTS FOR A TWO- YEAR PERIOD IN OUR HOSPITAL. THE INCIDENCE OF TEV IS SIGNIFICANTLY GREATER IN PATIENTS WITH SWAN-GANZ CATHETERS THAN IN OTHER PATIENTS.
DESCRIPTORS ***** THROMBOCYTOPENIA;ARTERY;BLOOD;PVC;
HELD TERMS THROMBOGENESIS;CATHETER;SWAN-GANZ CATHETER;PLATELETS;
REVIEW YEAR 1990

ITEM 45

ACCESSION NUMBER 1863
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT ASEPTIC THROMBOTIC ENDOCARDIAL VEGETATIONS
AUTHOR/AFFILIATION GREENE JF,NONE;CUMMINGS KC,NONE;
ORIGIN JAMA,VOL 225 NO.12 PP.1525-1526;
DATE 1973, SEPTEMBER 17
ABSTRACT ENDOCARDIAL LESIONS ASSOCIATED WITH INDWELLING PULMONARY ARTERY CATHETERS POSE POTENTIAL RISKS OF EMBOLIZATION AND INFECTION.
DESCRIPTORS ***** THROMBOCYTOPENIA;ARTERY;BLOOD;PVC;
HELD TERMS THROMBOGENESIS;CATHETER;SWAN-GANZ CATHETER;PLATELETS;LETTERMAN ARMY MEDICAL CENTER;
REVIEW YEAR 1990

ITEM 46

ACCESSION NUMBER 1862
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT SEPTIC ENDOCARDITIS AND INDWELLING PULMONARY ARTERY CATHETERS
AUTHOR/AFFILIATION GREENE JF,NONE;FITZWATER JE,SAME;CLEMMER TP,SAME;
ORIGIN JAMA,VOL 233 NO. 8 PP.891-892;
DATE 1975, AUGUST 25
ABSTRACT NO ASSOCIATION BETWEEN THE USE OF INDWELLING CATHETERS IN THE RIGHT SIDE OF THE HEART AND ENDOCARDITIS IN THE LEFT, ALTHOUGH THERE IS A RISK OF THROMBOTIC ENDOCARDIAL VEGETATION FORMATION IN THE RIGHT SIDE OF THE HEART,WITH POSSIBLE INFECTION OR EMBOLIZATION.
DESCRIPTORS ***** THROMBOCYTOPENIA;ARTERY;BLOOD;PVC;
HELD TERMS THROMBOGENESIS CATHETER;SWAN-GANZ CATHETER;PLATELET; LETTERMAN ARMY MEDICAL CENTER;
REVIEW YEAR 1990

ITEM 47

ACCESSION NUMBER 1861
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION

BFG52708

20898020

TITLE OR SUBJECT THROMBOCYTOPENIA ASSOCIATED WITH SWAN-GANZ CATHETERIZATION IN PATIENTS
AUTHOR/AFFILIATION KIM YL,NONE;RICHMAN KA,NONE;MARSHALL BE,NONE;
ORIGIN NONE,VOL 53 NO.3 PP.261-262;
DATE 1980, SEPTEMBER
ABSTRACT IN THE PRESENT STUDY, WE EXAMINED THE EFFECTS OF SWAN-GANZ CATHETERS UPON PLATELET COUNTS IN
ADULT PATIENTS UNDERGOING CORONARY-ARTERY BYPASS GRAFT OPERATIONS.
DESCRIPTORS ***** PVC;BLOOD;THROMBOCYTOPENIA;
HELD TERMS THROMBOGENESIS;CATHETER;SWAN-GANZ CATHETER;PLATELETS;UNIV OF PENNSYLVANIA;NATIONAL UNIV (SEOUL);
UNIV OF PENNSYLVANIA HOSPITAL; ANESTHESIOLOGY;
REVIEW YEAR 1990

ITEM 48

ACCESSION NUMBER 1858
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY DATA
TITLE OR SUBJECT EVALUATION OF THE SKIN IRRITATING AND SENSITIZING PROPENSITIES OF GEON 137 IN HUMANS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,REPORT NO. PI-3870;
DATE 1985, JULY 16
ABSTRACT HUMAN PATCH TEST USING A PANEL OF 50 SUBJECTS;NOT A SKIN IRRITANT OR SENSITIZER.
DESCRIPTORS ***** PVC;SKIN IRRITATION;SENSITIZATION;HUMAN PATCH TEST; HUMAN;EFFECTS;ACRYLIC ACID;
HELD TERMS ACRYLIC ACID COPOLYMER; GEON 137; PRODUCT INVESTIGATIONS INC;
REVIEW YEAR 1995

ITEM 49

ACCESSION NUMBER 1857
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT NONBACTERIAL THROMBOTIC ENDOCARDITIS ASSOCIATED WITH SEVERE PREECLAMPSIA AND PULMONARY ARTERY
CATHETERIZATION (A CASE REPORT)
AUTHOR/AFFILIATION CHESTNUT DH,NONE;LUMB PD,SAME;JELOVSEK F,SAME;KILLAM AP, SAME;
ORIGIN NONE,VOL 30 NO.6 PP.497-500;
DATE 1985, JUNE
ABSTRACT AUTOPSY REVEALED MULTIPLE PULMONARY THROMBOEMBOLI AND TRIVALVULAR NONBACTERIAL THROMBOTIC
ENDOCARDITIS.
DESCRIPTORS ***** PVC;BLOOD;THROMBOCYTOPENIA;
HELD TERMS THROMBOGENESIS;SWAN-GANZ CATHETER; DUKE UNIV;J OF REPRODUCTIVE MEDICINE;CATHETER;
REVIEW YEAR 1990

ITEM 50

ACCESSION NUMBER 1841
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EVALUATION OF THE PULMONARY TOXICITY OF PLASTICIZED POLYVINYL CHLORIDE THERMAL DECOMPOSITION
PRODUCTS IN GUINEA PIGS BY REPEATED CO2 CHALLENGES
AUTHOR/AFFILIATION WONG KL,UNIV OF PITTSBURGH;STOCK MF,SAME;ALARIE YC,SAME;
ORIGIN TOX AND APPLIED,VOL 70 PP.236-248;

BFG52709

DATE 1983
ABSTRACT MALE GUINEA PIGS WERE EXPOSED TO THERMAL DECOMPOSITION PRODUCTS OF PLASTICIZED POLYVINYL CHLORIDE (PVC-A) AT DIFFERENT CONCENTRATIONS UP TO LEVELS INDUCING ACUTE LETHALITY. SEVERAL GROUPS EXPOSED AT SUBLETHAL LEVELS WERE THEN EVALUATED FOR PULMONARY PERFORMANCE FOR A PERIOD OF 57 DAYS FOLLOWING EXPOSURE. PULMONARY PERFORMANCE WAS EVALUATED BY CHALLENGING EACH ANIMAL WITH A MIXTURE CONTAINING 10% CO₂, 20% O₂, AND 70% N₂. IN CONTROL ANIMALS, THIS MIXTURE INDUCED AN INCREASE IN BOTH TIDAL VOLUME AND RESPIRATORY FREQUENCY. THIS HYPERVENTILATORY RESPONSE WAS GREATLY DEPRESSED DURING THE FIRST 3 DAYS FOLLOWING EXPOSURE AND GRADUALLY RETURNED TO NORMAL DURING THE FOLLOWING WEEKS WITH THE EXCEPTION OF THE HIGHEST EXPOSURE GROUP WHICH STILL SHOWED A DIMINISHED RESPONSE 57 DAYS AFTER EXPOSURE. THE PULMONARY TOXICITY INDUCED BY THERMAL DECOMPOSITION PRODUCTS OF PVC-A IS PROBABLY RELATED TO THE VERY LARGE AMOUNT OF HCL RELEASED DURING THERMAL DECOMPOSITION. THE CO₂ RESPONSE TEST, A NONINTRUSIVE AND NONINVASIVE METHOD TO EVALUATE PULMONARY PERFORMANCE IN GUINEA PIGS, IS EASILY PERFORMED AND APPEARS TO BE A VERY PROMISING TYPE OF PULMONARY FUNCTION TEST FOR TOXICOLOGICAL EVALUATIONS.

DESCRIPTORS ***** PVC;CARBON MONOXIDE;GUINEA PIGS;RESPIRATORY EFFECTS;LUNGS; PULMONARY FUNCTION;THERMAL DECOMPOSITION;COMBUSTION;TOXICITY;

REVIEW YEAR 1990

ITEM 51

ACCESSION NUMBER 1840
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EVALUATION OF THE PULMONARY EFFECTS OF WOOD SMOKE IN GUINEA PIGS BY REPEATED CO₂ CHALLENGES
AUTHOR/AFFILIATION WONG KL,UNIV OF PITTSBURGH;STOCK MF,SAME;MALEK DE,SAME; ALARIE Y,SAME;
ORIGIN TOX AND APPLIED,VOL 75 PP.69-80;
DATE 1984
ABSTRACT MALE,ENGLISH SMOOTH HAired GUINEA PIGS WERE EXPOSED TO THERMAL DECOMPOSITION PRODUCTS,I.E., SMOKE,GENERATED BY HEATING DOUGLAS FIR IN AN OPEN SYSTEM. VARIOUS AMOUNTS OF DOUGLAS FIR WERE PLACED IN A FURNANCE,AT ROOM TEMPERATURE, AND HEATED AT A RATE OF 11 DEGREES C/MIN UNTIL COMPLETELY DECOMPOSED. MAJOR DECOMPOSITION OCCURRED BETWEEN 160 AND 490 DEGREES C, AND THE ANIMALS WERE EXPOSED DURING THIS TIME FOR A PERIOD OF 30 MIN. IMMEDIATELY BEFORE EXPOSURE AND AT VARIOUS TIMES AFTER EXPOSURE,EACH ANIMALS WAS EVALUATED BY WHOLE-BODY PLETHYSMOGRAPHY TO MEASURE TIDAL VOLUME AND RESPIRATORY FREQUENCY DURING AIR BREATHING AS WELL AS DURING CHALLENGE WITH 10% CO₂. EXPOSURE TO SMOKE FROM DOUGLAS FIR RESULTED IN A DIMINISHED VENTILATORY RESPONSE TO 10% CO₂. COMPARING THE EFFECT OF WOOD SMOKE WAS FOUND TO BE 10 TIMES LESS POTENT THAN SMOKE FROM POLYVINYLCHLORIDE AND ANIMALS RECOVERED MUCH MORE RAPIDLY THAN WITH SMOKE FROM POLYVINYLCHLORIDE.

DESCRIPTORS ***** WOOD;PVC;GUINEA PIGS;LUNGS;RESPIRATORY EFFECTS;PULMONARY FUNCTION; COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;CARBON MONOXIDE;

REVIEW YEAR 1990

ITEM 52

ACCESSION NUMBER 1805
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL CHLORIDE-ASSOCIATED DISEASE
AUTHOR/AFFILIATION LELBACH WK,NONE;MARSTELLER HJ,NONE;
ORIGIN NONE,VOL 47 PP.1-110;
DATE 1981

BFG52710

20898022

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 53

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 54

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 55

ACCESSION NUMBER 1799
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT POWER CONSIDERATIONS IN EPIDEMIOLOGIC STUDIES OF VINYL CHLORIDE WORKERS
AUTHOR/AFFILIATION BEAUMONT JJ, NIOSH; BRESLOW NE, NONE;

BFG52711

20898023

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 56

ACCESSION NUMBER 1797
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PULMONARY CHANGES AMONG VINYL CHLORIDE POLYMERIZATION WORKERS
AUTHOR/AFFILIATION LILIS R,NONE;ANDERSON H,NONE;MILLER A,NONE;SELIKOFF IJ,NONE;
ORIGIN NONE,VOL 69 NO.2 PP.299-303;
DATE 1976, FEBRUARY
ABSTRACT CHEST X-RAY ABNORMALITIES IN VCM/PVC WORKERS IS PRESENTED.
DESCRIPTORS ***** PVC;LUNG;EFFECTS;HUMAN;PULMONARY FUNCTION;EPIDEMIOLOGY;PVC DUST;
HELD TERMS CHEST;
REVIEW YEAR 1992

ITEM 57

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 II)
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 58

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PRINTOUT FOR GARY JONES
 ORDER NUMBER 860827-135259-WIZ -001-001
 PAGE 23 SET 4 WITH 385 OF 385 ITEMS

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 (BFG) SUMMARIZES THE RESPONSE OF TABERSHAW/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 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 59

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 60

ACCESSION NUMBER 1793
 FILE LOCATION GEN
 DOCUMENT TYPE PROCEEDINGS
 TITLE OR SUBJECT BIRTH DEFECTS AND VINYL CHLORIDE
 AUTHOR/AFFILIATION EDMONOS,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

BFG52713

ITEM 61

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 UNIFORM IN THE 3 COMMUNITIES AND APPEARED MOST PROMINENT IN PAINESVILLE.

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

ITEM 62

ACCESSION NUMBER 1785
FILE LOCATION GEN
DOCUMENT TYPE RESEARCH LAB REPORT
TITLE OR SUBJECT FURTHER DEVELOPMENT OF A TEST METHOD FOR THE ASSESSMENT OF THE ACUTE INHALATION TOXICITY OF COMBUSTION PRODUCTS
AUTHOR/AFFILIATION LEVIN BC,NONE;FOWELL AJ,NONE;DIRKY MI,NONE;PAABO M,NONE; STOLTE A,NONE;MALEK D,UNIV OF PITTSBURGH;
ORIGIN NONE,REPORT NBSIR 82-2532;
DATE 1982, JUNE
ABSTRACT THIS REPORT DESCRIBES THE DEVELOPMENT OF A TEST METHOD FOR THE ASSESSMENT OF ACUTE INHALATION TOXICITY OF COMBUSTION PRODUCTS OF MATERIALS. THE PROCEDURE IS PRIMARILY INTENDED FOR RESEARCH AND SCREENING PURPOSES. LIMITATIONS OF THE TEST METHOD ARE IDENTIFIED AND FUTURE WORK TO ADDRESS THEM IS PROPOSED. THE TOXICITY OF PVC WAS CLOSE TO THAT OF WOOD AND CLEARLY WITHIN THE ONE ORDER OF MAGNITUDE CRITERIA FOR DETERMINING WHETHER MATERIALS ARE SIGNIFICANTLY DIFFERENT.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;RATS;EFFECTS;ACUTE;
RELD TERMS SYNTHETIC PRODUCTS;NATURAL PRODUCTS;SMALL SCALE TESTS;NBS;
REVIEW YEAR 1995

ITEM 63

ACCESSION NUMBER 1781
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT AN EVALUATION OF SMOKE TOXICITY AND TOXIC HAZARD OF ELECTRICAL NONMETALLIC TUBING COMBUSTION PRODUCTS
AUTHOR/AFFILIATION PACKHAM SC,NONE;CRAWFORD MB,NONE;
ORIGIN NONE,VOL 2 PP.,37-59;
DATE 1984, JAN-FEB
ABSTRACT SMALL-SCALE SMOKE TOXICITY TESTS WERE PERFORMED ON POLYVINYL- CHLORIDE-BASED ELECTRICAL NONMETALLIC TUBING (PVC/ENT) USING THE NATIONAL BUREAU OF STANDARDS (NBS) PROTOCOL FOR NONFLAMING

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COMBUSTION. AN LC50 OF 28.5 MG/L(PLUS/ MINUS 9.25) WAS DETERMINED, PLACING PVC/ENT SMOKE IN A TOXICITY CATEGORY COMPARABLE TO SMOKE FROM WOOD. FOUR LARGE-SCALE TESTS WERE CONDUCTED IN A 21, 734-L ROOM (8X12X8FT). IN TESTS INVOLVING 18 TO 30 LINEAR INCH OF PVC/ENT WITH AND WITHOUT FUEL-CONTRIBUTING HEAT SOURCES, IT WAS LEARNED THAT : A)30 IN. OF PVC/ENT DEVELOPED A 3.3-MG/L SMOKE CONCENTRATION AND AN INSUFFICIENT HCL CONCENTRATION TO CAUSE DEATH OR SIGNIFICANT SYMPTOMS IN TEST ANIMALS (RATS) AND B) IN THE PRESENCE OF A RELATIVELY SMALL FIRE (5-LB WOOD CRIB),HEAT AND CARBON MONOXIDE BECAME LIFE LIMITING PRIOR TO HCL. IN ADDITIONAL TESTS INVOLVING APPROXIMATELY 60 IN. OF PVC/ENT DEGRADED UNDER 2.5 WATTS/ CM2 HEAT FLUX, A SMOKE CONCENTRATION OF 7.6 MG/L WAS DEVELOPED. ANIMAL FATALITIES IN THESE TESTS WERE SHOWN TO BE FROM HEAT STRESS RATHER THAN SMOKE INHALATION. THE MEASURABLE PERCENTS OF THEORETICAL YIELD OF HCL IN SMALL-SCALE TESTS RANGED FROM 64 TO 96 PERCENT AND IN LARGE-SCALE TESTS FROM 23 TO 50 PERCENT. THE REASONS FOR THESE DIFFERENCES ARE DISCUSSED.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;WOOD;ACUTE;RATS;EFFECTS;PVC; HYDROGEN CHLORIDE;
HELD TERMS SMALL SCALE TESTS; J OF FIRE SCIENCES; CONDUIT;LARGE SCALE TESTS;
REVIEW YEAR 1990

ITEM 64

ACCESSION NUMBER 1777
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EVALUATION OF THE PULMONARY EFFECTS OF WOOD SMOKE IN GUINEA PIGS BY REPEATED CO2 CHALLENGES
AUTHOR/AFFILIATION WONG KL,UNIV OF PITTSBURGH;STOCK MF,SAME;MALEK DE,SAME; ALARIE Y,SAME;
ORIGIN TOX AND APPLIED,VOL 75 PP.69-80;
DATE 1984
ABSTRACT MALE, ENGLISH SMOOTH HAired GUINEA PIGS WERE EXPOSED TO THERMAL DECOMPOSITION PRODUCTS, I.E., SMOKE, GENERATED BY HEATING DOUGLAS FIR IN AN OPEN SYSTEM. VARIOUS AMOUNTS OF DOUGLAS FIR WERE PLACED IN A FURNACE, AT ROOM TEMPERATURE, AND HEATED AT A RATE OF 11 DEGREES C/MIN UNTIL COMPLETELY DECOMPOSED. MAJOR DECOMPOSITION OCCURRED BETWEEN 160 AND 490 DEGREES C, AND THREE ANIMALS WERE EXPOSED DURING THIS TIME FOR A PERIOD OF 30 MIN. IMMEDIATELY BEFORE EXPOSURE AND AT VARIOUS TIMES AFTER EXPOSURE, EACH ANIMAL WAS EVALUATED BY WHOLE-BODY PLETHYSMOGRAPHY TO MEASURE TIDAL VOLUME AND RESPIRATORY FREQUENCY DURING AIR BREATHING AS WELL AS DURING CHALLENGE WITH 10% CO2. EXPOSURE TO SMOKE FROM DOUGLAS FIR RESULTED IN A DIMINISHED VENTILATORY RESPONSE TO 10% CO2. COMPARING THE EFFECT OF WOOD SMOKE TO THE EFFECT OF SMOKE FROM POLYVINYLCHLORIDE FROM PREVIOUS EXPERIMENTS WOOD SMOKE WAS FOUND TO BE 10 TIMES LESS FROM PREVIOUS EXPERIMENTS.WOOD SMOKE WAS FOUND TO BE 10 TIMES LESS POTENT THAN SMOKE FROMPOLYVINYLCHLORIDE AND ANIMALS RECOVERED MUCH MORE RAPIDLY THAN WITH SMOKE FROM POLYVINYLCHLORIDE.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;WOOD;PVC;LUNG;EFFECTS; PULMONARY FUNCTION;GUINEA PIGS;
REVIEW YEAR 1995

ITEM 65

ACCESSION NUMBER 1776
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EVALUATION OF THE PULMONARY TOXICITY OF PLASTICIZED POLYVINYL CHLORIDE THERMAL DECOMPOSITION PRODUCTS IN GUINEA PIGS BY REPEATED CO2 CHALLENGES
AUTHOR/AFFILIATION WONG KL,UNIV OF PITTSBURGH;STOCK MF;SAME;ALARIE YC,SAME;
ORIGIN TOX AND APPLIED,VOL 70 PP.236-248;
DATE 1983

ABSTRACT

MALE GUINEA PIGS WERE EXPOSED TO THERMAL DECOMPOSITION PRODUCTS OF PLASTICIZED POLYVINYL CHLORIDE (PVC-A) AT DIFFERENT CONCENTRATIONS UP TO LEVELS INDUCING ACUTE LETHALITY. SEVERAL GROUPS EXPOSED AT SUBLETHAL LEVELS WERE THEN EVALUATED FOR PULMONARY PERFORMANCE FOR A PERIOD OF 57 DAYS FOLLOWING EXPOSURE. PULMONARY PERFORMANCE WAS EVALUATED BY CHALLENGING EACH ANIMAL WITH A MIXTURE CONTAINING 10% CO₂, 20% O₂, AND 70% N₂. IN CONTROL ANIMALS, THIS MIXTURE INDUCED AN INCREASE IN BOTH TIDAL VOLUME AND RESPIRATORY FREQUENCY. THIS HYPERVENTILATORY RESPONSE WAS GREATLY DEPRESSED DURING THE FIRST 3 DAYS FOLLOWING EXPOSURE AND GRADUALLY RETURNED TO NORMAL DURING THE FOLLOWING WEEKS WITH THE EXCEPTION OF THE HIGHEST EXPOSURE GROUP WHICH STILL SHOWED A DIMINISHED RESPONSE 57 DAYS AFTER EXPOSURE. THE PULMONARY TOXICITY INDUCED BY THERMAL DECOMPOSITION PRODUCTS OF PVC-A IS PROBABLY RELATED TO THE VERY LARGE AMOUNT OF HCL RELEASED DURING THERMAL DECOMPOSITION. THE CO₂ RESPONSE TEST, A NONINTRUSIVE AND NONINVASIVE METHOD TO EVALUATE PULMONARY PERFORMANCE IN GUINEA PIGS, IS EASILY PERFORMED AND APPEARS TO BE A VERY PROMISING TYPE OF PULMONARY FUNCTION TEST FOR TOXICOLOGICAL EVALUATIONS.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;EFFECTS;LUNG;GUINEA PIGS; PULMONARY FUNCTION;
REVIEW YEAR 1995

ITEM 66

ACCESSION NUMBER 1775
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT COMPARATIVE INHALATION TOXICITY OF HEATED MATERIALS MEASURED AS EXPOSURE MORTALITY AND POST EXPOSURE MORTALITY

AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,REPORT NO. A51251;
DATE 1976, AUGUST 31
ABSTRACT THE COMBUSTION TOXICITY OF PVC AND WOOD WAS EVALUATED.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;WOOD;EFFECTS;ACUTE; RATS
HELD TERMS GEON 87234;SMALL SCALE TESTS;
REVIEW YEAR 1995

ITEM 67

ACCESSION NUMBER 1774
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT COMBUSTION TOXICOLOGICAL TESTING - PART 5: EVALUATION OF A SERIES OF SYNTHETIC AND NATURAL PRODUCTS BASED ON INCAPACITATION RESPONSE AND ANALYTICAL COMBUSTION GAS DATA

AUTHOR/AFFILIATION SMITH GF,BFG;BACHTEL WC,BFG-AKRON;
ORIGIN BFG-CHEMICAL
DATE 1977, AUGUST 10
ABSTRACT BASED ON THE MASS OF MATERIAL WHICH INDUCES 50% INCAPACITATION, THE MATERIALS ARE RANKED AS FOLLOWS (BEST PERFORMING MATERIAL LISTED FIRST): GEON 8750 > ESTANE 58360 > POLYCHLOROPRENE > WOOD > GEON 8750 PLUS ZFC > POLYCHLOROPRENE PLUS ZFC.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;POLYCHLOROPRENE; WOOD;ZINC;EFFECTS;RATS;ACUTE;
HELD TERMS ZINC FERROCYANIDE;SMALL SCALE TESTS;GEON 8750;ESTANE 58360;
REVIEW YEAR 1995

ITEM 68

BFG52716

20898028

ACCESSION NUMBER 1773
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT COMBUSTION TOXICOLOGICAL TESTING - PART 4: EVALUATION OF HI-TEMP COMPOUNDS BASED ON INCAPACITATION RESPONSE AND ANALYTICAL GAS DATA
AUTHOR/AFFILIATION SMITH GF,BFG;BACHTEL WC,BFG-AKRON;
ORIGIN BFG-CHEMICAL
DATE 1978, APRIL 6
ABSTRACT THE PERFORMANCE OF CPVC WITH LOW RESIDUAL CCL4 IS ESSENTIALLY EQUIVALENT TO THE PERFORMANE OF GEON 8750 (RIGID PVC). THE PERFORMANCE OF CELLULAR VINYL IS SUPERIOR TO THAT OF CELLULAR CPVC WITH HIGH RESIDUAL CCL4.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;CPVC;RATS;EFFECTS;ACUTE;
HELD TERMS HI-TEMP;GEON 8750;SMALL SCALE TESTS;
REVIEW YEAR 1995

ITEM 69

ACCESSION NUMBER 1772
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT COMBUSTION TOXICOLOGICAL TESTING - PART 3: EVALUATION OF MATERIALS BASED ON INCAPACITATION RESPONSE AND ANALYTICAL GAS DATA
AUTHOR/AFFILIATION SMITH GF,BFG-AKRON;BACHTEL WC,BFG-AKRON;
ORIGIN BFG-CHEMICAL
DATE 1976, DECEMBER 23
ABSTRACT BIOASSAY TEST RESULTS DEMONSTRATE THAT RIGID 87235 AND FLEXIBLE 84295 ARE SUPERIOR TO THE CURRENT STANDARD MATERIALS, GEON 8750 AND FLEXIBLE 8737.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;RATS;EFFECTS; WOOD;ACUTE;
HELD TERMS GEON 87235;GEON 84295;GEON 8750;GEON 8737;SMALL SCALE TESTS;
REVIEW YEAR 1995

ITEM 70

ACCESSION NUMBER 1771
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT COMBUSTION TOXICOLOGICAL TESTING - PART 2: COMBINED BIOLOGICAL RESPONSE AND ANALYTICAL GAS DATA ON 12 KEY MATERIALS
AUTHOR/AFFILIATION O'MARA MM,BFG-CHEMICAL;BACHTEL WC,BFG-AKRON;
ORIGIN BFG-CHEMICAL
DATE 1976, APRIL 27
ABSTRACT THE AUTHORS COMPARED WOOD AND SELECTED SYNTHETIC PRODUCTS. THEY FOUND THAT RESULTS VARY DEPENDING ON THE METHOD OF COMBUSTION.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;WOOD;CPVC;RATS; ACUTE;
HELD TERMS GEON 8750;SMALL SCALE TESTS;HI-TEMP;
REVIEW YEAR 1995

ITEM 71

ACCESSION NUMBER 1770

BFG52717

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ORDER NUMBER 860827-135259-WIZ -001-001
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FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT AN EVALUATION OF A SERIES OF NATURAL AND SYNTHETIC MATERIALS BY INCAPACITATION BIOASSAY TESTING:
A SPECIAL REPORT TO THE NATIONAL BUREAU OF STANDARDS
AUTHOR/AFFILIATION SMITH GF,BFG-AVON LAKE;
ORIGIN BFG-AVON LAKE,FOR NATIONAL BUREAU OF STANDARDS;
DATE 1977, SEPTEMBER
ABSTRACT THE COMBUSTION TOXICITY OF PVC,PVC/ZINC FERROCYANIDE, POLYCHLOROPRENE,POLYCHLOROPRENE ZINC
FERROCYANIDE, POLYURETHANE AND WOOD WERE STUDIED. BASED ON INCAPACITATION ,PVC WAS ONE OF THE
LEAST TOXIC MATERIALS TESTED.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;POLYCHLOROPRENE; WOOD;RATS;EFFECTS;ACUTE;
HELD TERMS ZINC FERROCYANIDE;POLYURETHANES;SMALL SCALE TESTS;
REVIEW YEAR 1995

ITEM 72

ACCESSION NUMBER 1769
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT RELATIVE PERFORMANCE OF GEON 8750,87234 AND 87235 IN COMBUSTION- BIOASSAY PROTOCOLS
AUTHOR/AFFILIATION O'MARA MM,BFG-AVON LAKE;
ORIGIN BFG-AVON LAKE
DATE 1976, OCTOBER 22
ABSTRACT THE COMBUSTION TOXICITY OF PVC,WOOD AND PVC COMPOUNDS WERE EVALUATED.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;RATS;EFFECTS;ACUTE; WOOD;
HELD TERMS SMALL SCALE TESTS;GEON 87234;GEON 87235;GEON 8750;
REVIEW YEAR 1995

ITEM 73

ACCESSION NUMBER 1768
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT COMPARATIVE INHALATION TOXICITY OF HEATED MATERIALS MEASURED AS INCAPACITATION,EXPOSURE
MORTALITY AND POST EXPOSURE MORTALITY
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,FOR BFG REPORT NO.02077;
DATE 1977, APRIL 20
ABSTRACT THE COMBUSTION TOXICITY OF PVC,WOOD AND WOOL WAS EVALUATED.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;WOOD; RATS;EFFECTS;ACUTE;
HELD TERMS U.S.TESTING CO;SMALL SCALE TESTS;GEON 8750; WOOL;
REVIEW YEAR 1995

ITEM 74

ACCESSION NUMBER 1767
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT COMPARATIVE INHALATION TOXICITY OF HEATED MATERIALS MEASURED AS INCAPACITATION,EXPOSURE
MORTALITY AND POST EXPOSURE MORTALITY

BFG52718

AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,FOR BFG REPORT NO.A51192;
DATE 1976, JULY 13
ABSTRACT THE COMBUSTION TOXICITY OF PVC,PVC/ZINC FERROCYANIDE, AND SEVERAL PVC COMPOUNDS WAS STUDIED.
DESCRIPTORS ***** PVC;COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;RATS;EFFECTS; ACUTE;
HELD TERMS U.S.TESTING CO;ZINC FERROCYANIDE;GEON 8750;GEON 87235; GEON 8737;GEON 84295;SMALL SCALE TESTS;
REVIEW YEAR 1995

ITEM 75

ACCESSION NUMBER 1765
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT RESULTS OF THE EXPOSURE OF TEST RATS TO THE COMBUSTION PRODUCTS FROM B.F.G.C.C. PRODUCTS
AUTHOR/AFFILIATION O'MARA M.BFG-CHEMICAL;
ORIGIN BFG-CHEMICAL
DATE 1975, OCTOBER 27
ABSTRACT THIS REPORT PRESENTS A SUMMARY OF THE BACKGROUND LEADING UP TO OUR FIRST ANIMAL COMBUSTION-EXPOSURE EXPERIMENTS, THE CURRENT PHILOSOPHY BEHIND THIS KIND OF TESTING AND CURRENT LIMITATIONS WITH THE TESTING. TWELVE KEY MATERIALS INVOLVING THE FOLLOWING PRODUCT LINES (ESTANE, ABSON,PVC,HI-TEMP) WERE CHOSEN FOR THIS INITIAL EVALUATION. ALL EXPERIMENTS WERE CARRIED OUT AT U.S. TESTING USING A MODIFICATION OF THEIR TESTING PROTOCOL. IN SUMMARY, TEN OUT OF THE TWELVE SUBMITTED MATERIALS PERFORMED WORSE THAN WOOD. ONE SMOKE RETARDED PVC FORMULATION WAS MUCH SUPERIOR TO WOOD. AN ANALYSIS OF THE DATA INDICATES THAT 5 OUT OF THE 10 MATERIALS WERE WORSE THAN WOOD BECAUSE OF THE AMOUNT OF COMBUSTION PRODUCTS PRODUCED; THE REMAINING 5 SAMPLES WERE WORSE THAN WOOD BECAUSE OF THE KINDS OF COMBUSTION PRODUCTS PRODUCED.
DESCRIPTORS ***** COMBUSTION;TOXICITY;PVC;THERMAL DECOMPOSITION;WOOD;RATS;EFFECTS; ACUTE;
HELD TERMS ESTANE X430;SMALL SCALE TESTS;ABSON 89129;ABSON 820X16; GEON 8750;GEON 8804 BLACK 288;GEON 8737 BLACK 289;GEON 3010;GEON 85721 NATURAL 020;
REVIEW YEAR 1995

ITEM 76

ACCESSION NUMBER 1762
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT TOXICOLOGIC EVALUATION OF THERMOPLASTIC RESINS AT AND ABOVE PROCESSING TEMPERATURES
AUTHOR/AFFILIATION SANGHA GK,UNIV OF PITTSBURGH;MATIJAK M,SAME;ALARIE Y,SAME;
ORIGIN AIHA,VOL 42 PP.481-485;
DATE 1981
ABSTRACT SENSORY IRRITATION AND ACUTE LETHALITY CAUSED BY FUMES EMANATING FROM A VARIETY OF THERMOPLASTICS WERE EVALUATED USING MICE. THE MATERIALS WERE SUBJECTED TO TEMPERATURE RANGES FROM MELT PROCESSING AND ABOVE, ALL MATERIALS RELEASED IRRITATING FUMES WITH INCREASING TEMPERATURES AND ACUTE LETHALITY,PRINCIPALLY DUE TO RELEASE OF CARBON MONOXIDE,OCURRED AT ELEVATED TEMPERATURES.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;MICE;PVC;ACUTE;EFFECTS;
HELD TERMS NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS;
KWIC INDEX NUMBER 04820
REVIEW YEAR 1995

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ITEM 77

ACCESSION NUMBER 1757
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT THE CORRELATION OF ANIMAL RESPONSE DATA WITH THE YIELDS OF SELECTED THERMAL DECOMPOSITION PRODUCTS FOR TYPICAL AIRCRAFT INTERIOR MATERIALS:FINAL REPORT
AUTHOR/AFFILIATION SPURGEON JC,NONE;
ORIGIN NTIS,REPORT NO.FAA-RD-78-131;
DATE 1978, NOVEMBER
ABSTRACT THE AUTHOR COMPARED THE COMBUSTION TOXICITY OF MANY MATERIALS. PVC WAS LESS TOXIC THAN MANY AND COMPARABLE TO OR MORE TOXIC THAN SOME.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;RATS;EFFECTS; ACUTE;
HELD TERMS NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS;FAA; FEDERAL AVIATION ADMINISTRATION;
KWIC INDEX NUMBER 04135
REVIEW YEAR 1995

ITEM 78

ACCESSION NUMBER 1754
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ASSESSMENT OF THE RELATIVE TOXICITY OF MATERIALS: CONCEPT OF A LIMITING TOXICANT
AUTHOR/AFFILIATION PETAJAN JH,UNIV OF UTAH;BALDWIN RC,SAME;ROSE RF,SAME; JEPPSEN RB,SAME;
ORIGIN NONE,ASTM STP 614 PP.285-299;
DATE 1977
ABSTRACT EXPERIMENTS WERE CONDUCTED ON MALE LONG-EVANS RATS INSTRUMENTED FOR MEASUREMENT OF VITAL FUNCTIONS AND A CONDITIONED AVOIDANCE RESPONSE. AN INTRA-ARTERIAL CANNULA WAS USED FOR REMOVAL OF BLOOD SAMPLES. RATS WERE EXPOSED TO COMBUSTION PRODUCTS OF THREE POLYMERIC MATERIALS. A NATIONAL BUREAU OF STANDARDS SMOKE CHAMBER AND A SMALLER "STATIC" CHAMBER WERE USED FOR EXPOSURES. MATERIAL A PRODUCED A SYNDROME OF CARBON MONOXIDE (CO)-INDUCED ANOXIA, THE SEVERITY OF WHICH DEPENDED ONLY UPON THE AMOUNT OF MATERIAL DEGRADED AND NOT UPON THE MODE OF COMBUSTION (HEAT,FLUX, FLAMING,OR NONFLAMING). MATERIAL B PRODUCED A SYNDROME OF EPILEPSY AND CARBOXYHEMOGLOBIN LEVELS BELOW 10 PERCENT. MATERIAL C PRODUCED A METABOLIC ACIDOSIS AND MILD CO- INDUCED ANOXIA, THE SEVERITY OF WHICH WAS RELATED TO THE AMOUNT OF MATERIAL DEGRADED, IRRESPECTIVE OF THE COMBUSTION MODE. THE COMBUSTION PRODUCTS OF MATERIALS B AND C PRODUCED INTOXICATION SYNDROMES DISTINCTLY DIFFERENT FROM THE SYNDROME OF CO-INDUCED ANOXIA PRODUCED BY MATERIAL A. "LIMITING" TOXICANTS OR SUBSTANCES WITH HIGH BIOLOGICAL ACTIVITY MAY BE PRESENT IN COMBUSTION PRODUCTS AND PRODUCE UNIQUE INTOXICATION SYNDROMES.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;RATS;EFFECTS; ACUTE;
HELD TERMS SMALL SCALE TESTS;ASTM;AMERICAN SOCIETY FOR TESTING & MATERIALS; FIRE STANDARDS AND SAFETY;
REVIEW YEAR 1995

ITEM 79

ACCESSION NUMBER 1753
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT TOXICITY OF THERMAL DECOMPOSITION PRODUCTS FROM COMMONLY USED SYNTHETIC POLYMERS

20898032

AUTHOR/AFFILIATION MATIJAK-SCHAPER M,UNIV OF PITTSBURGH;STOCK MF,SAME; ALARIE Y,SAME;
ORIGIN NONE,NONE;
DATE 1982, DECEMBER
ABSTRACT THE AUTHORS REPORT THE RESULTS OF COMBUSTION TOXICITY FOR NYLON CARPET,PVC,FLOOR TILES, PLASTIC
PIPE,WIRING,PTFE, AND FOAM SAMPLES.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;MICE;EFFECTS; ACUTE;
HELD TERMS SMALL SCALE TESTS;SYNTHETIC PRODUCTS;
REVIEW YEAR 1995

ITEM 80

ACCESSION NUMBER 1752
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT A SEMI-QUANTITATIVE METHOD FOR ASSESSING ANATOMIC DAMAGE SUSTAINED BY THE UPPER RESPIRATORY
TRACT OF THE LABORATORY MOUSE,MUS MUSCULIS
AUTHOR/AFFILIATION LUCIA HL,UNIV OF PITTSBURGH;BARROW CS,SAME;STOCK MF,SAME; ALARIE Y,SAME;
ORIGIN J OF COMBUSTION TOXICOLOGY,VOL 4 PP.472-486;
DATE 1977, NOVEMBER
ABSTRACT STANDARDIZED METHODOLOGY WAS DEVELOPED AND USED TO EVALUATE THE EFFECTS ON THE UPPER RESPIRATORY
OF MICE FOLLOWING EXPOSURE TO THERMAL DECOMPOSITION PRODUCTS OF VARIOUS POLYMERS. THE RESULTS
OBTAINED JUSTIFY THE FOLLOWING RATING FOR THE POLYMERS TESTED FROM MOST TO LEAST POTENT:
POLYTETRAFLUOROETHYLENE, POLYVINYL CHLORIDE > POLYURETHANE,DOUGLAS FIR > FIBER GLASS REINFORCED
POLYESTER. INJURY OBTAINED WITH POLYVINYL CHLORIDE WAS VERY SIMILAR TO THAT PRODUCED BY HYDROGEN
CHLORIDE. DAMAGE WITH PURE HCL GAS APPEARS GREATER THAN AMOUNT OF PVC WHICH WOULD HAVE PRODUCED
AN ESTIMATED EQUIVALENT AMOUNT OF HCL.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;MICE;EFFECTS; HYDROGEN CHLORIDE;WOOD;PATHOLOGY;
LUNG;RESPIRATORY TRACT;
HELD TERMS SMALL SCALE TESTS;SYNTHETIC PRODUCTS; NATURAL PRODUCTS;
REVIEW YEAR 1995

ITEM 81

ACCESSION NUMBER 1751
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TOXICITY OF PLASTIC COMBUSTION PRODUCTS. III. RAPID EVALUATION METHOD BY DETERMINATION OF THE
LD50 IN MICE
AUTHOR/AFFILIATION LE MOAN G,NONE;CHAIGNEAU M,NONE;
ORIGIN NONE,VOL 35 NO.11-12 PP.461-464;
DATE 1977
ABSTRACT PVC WAS ONE OF THE LEAST TOXIC MATERIALS TESTED.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PVC;EFFECTS;MICE; ACUTE;
HELD TERMS SYNTHETIC PRODUCTS;SMALL SCALE TESTS;ANNALES PHARM FRANC;
REVIEW YEAR 1995

ITEM 82

ACCESSION NUMBER 1749
FILE LOCATION GEN

BFG52721

DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT EPIDEMIOLOGICAL STUDY OF THE LUNG FUNCTION OF WORKERS AT A FACTORY MANUFACTURING POLYVINYLCHLORIDE
AUTHOR/AFFILIATION LLOYD MN,NONE;GAULD S,NONE;COPLAND L,NONE;SOUTAR CA,NONE;
ORIGIN NONE,VOL 41 PP.328-333;
DATE 1984
ABSTRACT A PRELIMINARY EPIDEMIOLOGICAL STUDY HAS BEEN CARRIED OUT TO INVESTIGATE A REPORT THAT SOME MEN WORKING IN A FACTORY MANUFACTURING POLYVINYLCHLORIDE (PVC) HAD ABNORMALLY LOW VALUES OF THE SINGLE BREATH DIFFUSING CAPACITY FOR CARBON MONOXIDE (TLCO). ALL 265 PRESENT AND PAST EMPLOYEES OF THE PVC FACTORY WERE STUDIED, TOGETHER WITH 219 MEN FROM THE WORKFORCE OF A NEARBY FOUNDRY. EACH MAN'S TLCO WAS MEASURED AND A SMOKING HISTORY AND DETAILED OCCUPATIONAL HISTORY OBTAINED. THE DISTRIBUTION OF STANDARDISED TLCO RESULTS FROM ALL PERSONS EXAMINED WAS SYMMETRICAL AND DID NOT INDICATE AN UNEXPECTEDLY HIGH PROPORTION OF MEN WITH CLINICALLY IMPORTANT IMPAIRMENT OF TLCO. THE RESULTS OF A CASE-CONTROL STUDY SHOWED THAT,HAVING ALLOWED FOR AGE,HEIGHT,WEIGHT,AND SMOKING HABIT,TLCO WAS ASSOCIATED WITH A HISTORY OF WORKING IN THE PVC FACTORY BEFORE 1975 (WHEN LEVELS OF VINYLCHLORIDE MONOMERS (VCM) WERE MUCH HIGHER THAN SUBSEQUENTLY), AND SLIGHTLY ASSOCIATED WITH WORKING IN JOBS WHERE EXPOSURE TO VCM WAS LIKELY TO HAVE BEEN HIGHEST. THE MEN WITH LOW TLCO ALSO TENDED TO HAVE SMOKED MORE HEAVILY THAN CONTROLS. THE RELATIVE IMPORTANCE OF OCCUPATIONAL FACTORS AND SMOKING IN RELATION TO LOW TLCO IS NOT CLEAR, BUT THE RESULTS GIVE SOME SUPPORT TO THE HYPOTHESIS THAT WORK IN THE PVC FACTORY BEFORE 1975 ENTAILED EXPOSURE TO A SUBSTANCE THAT CAUSED IMPAIRMENT OF LUNG FUNCTION IN A SMALL NUMBER OF MEN.
DESCRIPTORS ***** POLYVINYL CHLORIDE;PULMONARY FUNCTION;EPIDEMIOLOGY;LUNGS;EFFECTS;HUMANS;
HELD TERMS BRITISH J OF INDUSTRIAL MEDICINE;
COMMENTS RKH(85) FULL TEXT AND COMMENTS BY GEOFF PADDLE ARE ATTACHED.
REVIEW YEAR 1995

ITEM 83

ACCESSION NUMBER 1748
FILE LOCATION GEN
DOCUMENT TYPE STANDARDS
TITLE OR SUBJECT CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS:CONTROL OF VINYL CHLORIDE AT WORK (DRAFT APPROVED CODE OF PRACTICE)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN HEALTH AND SAFETY EXECUTIVE,UNITED KINGDOM HEALTH & SAFETY COMMISSION;
DATE 1984
DESCRIPTORS ***** VINYL CHLORIDE MONOMER;OCCUPATIONAL EXPOSURE;
REVIEW YEAR 1987

ITEM 84

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

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20898034

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

ITEM 85

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 86

ACCESSION NUMBER 1718
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL HAZARDS OF VINYL CHLORIDE AND STYRENE
AUTHOR/AFFILIATION NICHOLSON WJ,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;
COMMENTS MNJ(85) QUESTIONS THE CLAIM THAT VCM CAUSES LUNG CANCER.
REVIEW YEAR 1990

ITEM 87

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,

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PRINTOUT FOR GARY JONES
 ORDER NUMBER 860827-135259-WIZ -001-001
 PAGE 34 SET 4 WITH 385 OF 385 ITEMS

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 MIMICRED 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 88

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-YEAR-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 LABOR;
 REVIEW YEAR 1990

ITEM 89

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; AND (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

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

ITEM 90

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

ITEM 91

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;IOWE 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

20898037

ITEM 92

ACCESSION NUMBER 1698
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT RESPIRATORY ILLNESS CAUSED BY OVERHEATING OF POLYVINYL CHLORIDE
AUTHOR/AFFILIATION FRONEBERG B,NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH;JOHNSON PL,SAME;LANDRIGAN PJ,
SAME;
ORIGIN NONE,VOL 39 PP.239-243;
DATE 1982
ABSTRACT ON 9 AUGUST 1979, 62 (30.8%) OF 201 WORKERS AND ONE OF 60 MANAGEMENT PERSONNEL IN A POLYVINYL CHLORIDE (PVC) FABRICATING PLANT DEVELOPED ACUTE UPPER AND LOWER RESPIRATORY IRRITATION, HEADACHE, NAUSEA,AND FAINTING. ALL WERE TAKEN TO HOSPITAL;NONE DIED. SIXTY OF THE PATIENTS WERE WOMEN. INTERVIEWS TWO WEEKS LATER WITH 57 AFFECTED AND 14 UNAFFECTED WORKERS DISCLOSED THAT ILLNESS HAD FOLLOWED EXPOSURE TO FUMES FROM AN OVERHEATED (362 DEGREES C) PVC EXTRUDING MACHINE. FUMES WERE EMITTED FROM 1100 UNTIL 1150; CASES OCCURRED FROM 1100 UNTIL LATE AFTERNOON. ALL WORKERS WHO BECAME ILL WORKED WEST OF THE OVERHEATED EXTRUDER, AND THE AFFECTED MANAGER HAD VISITED THAT AREA. THE EARLIEST CASES OCCURRED CLOSEST TO THE MACHINE, AND INCIDENCE DECREASED (FROM 53.3% TO 15.4%) WITH DISTANCE WESTWARD. THIS PATTERN WAS CONSISTENT WITH PLANT VENTILATION. INCIDENCE RATES IN MEN AND WOMEN DID NOT DIFFER (P>0.1). AT TWO AND 14 WEEKS, PULMONARY FUNCTION TESTING OF WORKERS WITH PERSISTENT PULMONARY SYMPTOMS SHOWED ABNORMALITIES IN 13 OF 16 AND IN 9 OF 11 RESPECTIVELY;THE GROUP WITH PERSISTENT SYMPTOMS CONTAINED AN EXCESS OF NON-SMOKERS AND OF THOSE WITH PREVIOUS RESPIRATORY ILLNESSES. ONE KILOGRAM OF PVC HEATED TO 300 DEGREES C RELEASES AN ESTIMATED 12.9 G OF HYDROCHLORIC ACID (HCL) AND 4.9 G OF CARBON MONOXIDE (CO). WE ATTRIBUTED THE OUTBREAK TO EXPOSURE TO TOXIC HCL AND CO AND REJECTED THE HYPOTHESIS OF MASS PSYCHOGENIC ILLNESS.

DESCRIPTORS ***** POLYVINYL CHLORIDE;THERMAL DECOMPOSITION;HYDROGEN CHLORIDE;RESPIRATORY EFFECTS;ACUTE; PULMONARY FUNCTION;
HELD TERMS BRITISH J OF INDUSTRIAL MEDICINE;
REVIEW YEAR 1990

ITEM 93

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

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ITEM 94

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 KALHAZ EE, UNIVERSITY OF TEXAS; KALHAZ GO, 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 BUEFELER 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 AND PHARMACOLOGY; UNIV OF TENNESSEE;
REVIEW YEAR 1990

ITEM 95

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 96

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 97

ACCESSION NUMBER 1688
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT INCIDENCE OF CANCER AMONG VINYL CHLORIDE AND POLYVINYL CHLORIDE WORKERS

17125272
BEG

AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

HELDAAS SS,NONE;LANGARD SL,NONE;ANDERSEN A,NONE;
NONE,VOL 41 PP.25-30;
1984

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 *****
HELP TERMS
REVIEW YEAR

VINYL CHLORIDE MONOMER;POLYVINYL CHLORIDE;HUMANS;EFFECTS;EPIDEMIOLOGY; CANCER;
BRITISH J OF INDUSTRIAL MEDICINE; MELANOMAS
1990

ITEM 98

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
DESCRIPTORS *****
HELP TERMS
REVIEW YEAR

1687
GEN
JOURNAL
VINYL CHLORIDE: THE EVIDENCE FOR HUMAN CARCINOGENICITY IN DIFFERENT TARGET ORGANS
SALMON AG,NONE;
NONE,VOL 42 NO.2PP.73-74;
1985, FEBRUARY
VINYL CHLORIDE MONOMER;POLYVINYL CHLORIDE;ETHYLENE DICHLORIDE;CANCER;EFFECTS;HUMANS;EPIDEMIOLOGY;
BRITISH J OF INDUSTRIAL MEDICINE;
1995

ITEM 99

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
DESCRIPTORS *****
HELP TERMS
KWIC INDEX NUMBER
REVIEW YEAR

1645
GEN
TECHNICAL REPORT
VCM FROM PVC DURING THERMAL DECOMPOSITION
NONE,NONE;
UNION CARBIDE
1975
VCM; PVC;
FRAGMENTOGRAPHY;
00713REPO
1990

ITEM 100

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN

1608
GEN
TOXICITY STUDY
SKIN TESTING TO TWO GEON FILMS AND ONE HYCAR PRODUCT
NONE,NONE;
BFG-BRECKSVILLE,F.M.MCDONALD (AKRON DERMATOLOGIST);

BFG52728

Product
Specific

DATE 1971, APRIL-MAY;
ABSTRACT GEON 950X1,460X1 AND HYCAR 2600X138 CAUSED SKIN IRRITATION IN HUMAN VOLUNTEERS. NO EVIDENCE OF SENSITIZATION WAS OBSERVED DURING THE CHALLENGE.
DESCRIPTORS ***** GEON 460X1; HYCAR 2600X138; HUMAN PATCH TEST; IRRITATION OF SKIN; SENSITIZATION; HUMANS; EFFECTS;
HELLO TERMS GEON 950X1;
KWIC INDEX NUMBER 00641TOXS
REVIEW YEAR 1990

ITEM 101

ACCESSION NUMBER 1607
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT SKIN TESTING WITH GEON AND HYCAR PRODUCTS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-BRECKSVILLE,F.W.MCDONALD (AKRON DERMATOLOGIST)
DATE 1972, JANUARY
ABSTRACT GEON 460X1 AND 460X2 AND HYCAR 2600X138 PRODUCED SKIN IRRITATION IN HUMAN VOLUNTEERS. THE CHALLENGE APPLICATION FAILED TO PRODUCE ANY EVIDENCE OF SENSITIZATION.
DESCRIPTORS ***** HUMANS; EFFECTS; IRRITATION OF SKIN; SENSITIZATION; HUMAN PATCH TEST; GEON 460X1; GEON 460X2;
KWIC INDEX NUMBER HYCAR 2600X138;
REVIEW YEAR 00640TOXS
1990

ITEM 102

ACCESSION NUMBER 1595
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT HUMAN REPEATED INSULT PATCH TEST WITH GEON 130X17-RESIN AND PLASTISOL
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN INDUSTRIAL BIO-TEST LABS, FOR BFG;
DATE 1974, JUNE 11
ABSTRACT FOR GEON 130X17 RESIN AND PLASTISOL SOME POSITIVE SCORES WERE NOTED. IT WAS CONCLUDED THAT THESE WERE NOT SKIN IRRITANTS OR SENSITIZING AGENTS IN THESE HUMAN PATCH TESTS.
DESCRIPTORS ***** GEON 130X17; POLYVINYL CHLORIDE; HUMAN PATCH TEST; SKIN IRRITATION; HUMANS; EFFECTS;
KWIC INDEX NUMBER SENSITIZATION;
REVIEW YEAR 00626TOXS
1995

ITEM 103

ACCESSION NUMBER 1569
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE MIGRATION OF LEAD FROM POLYMERS IN THE RAT NAL TRACGASTRO-INTESTINAL TRACT
AUTHOR/AFFILIATION LITCHFIELD MH,IMPERIAL CHEMICAL INDUSTRIES (ENGLAND);GAGE JC,SAME;
ORIGIN NONE,VOL 6 PP.329-338;
DATE 1968
ABSTRACT THE MIGRATION OF LEAD FROM FOUR POLYMER FORMULATIONS DURING THEIR PASSAGE THROUGH THE RAT

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GASTRO- INTESTINAL TRACT HA BEEN INVESTIGATED. DIETS CONTAINING 1% OF THE FORMULATIONS HAVE BEEN ADMINISTERED TO GROUPS OF RATS FOR 4-5 MONTHS AND MEASUREMENTS HAVE BEEN MADE OF THE LEAD CONTENT IN BLOOD,BILE AND URINE, AND IN LIVER,KIDNEYS AND BONE. THE GREATEST MIGRATION OF LEAD INTO THE GUT FROM THE POLYMER FORMULATIONS WAS OBSERVED WITH PVC CONTAINING 2.3% LEAD SULPHATE, WHERE THE AMOUNT WAS EQUIVALENT TO ABOUT 3 MG LEAD/G POLYMER. IT IS CONCLUDED THAT THE RISK OF LEAD POISONING FROM INGESTION OF ANY OF THE FOUR POLYMERS IS NEGLIGIBLE.

DESCRIPTORS ***** DIET; CHRONIC; EFFECTS; LEAD; RAT; POLYVINYL CHLORIDE; MIGRATION;
KWIC INDEX NUMBER 00592PUBL
REVIEW YEAR 1990

ITEM 104

ACCESSION NUMBER 1545
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT SKIN TESTS WITH PLASTICIZERS)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-BRECKSVILLE,F.M.MCDONALD;
DATE 1968, FEB-MAR
ABSTRACT SAMPLES 540-89-150-1 (GEON 135 AND GEON 264) AND 540-89-150-2 (GEON 135 AND GEON 261) AND GEONS 264 AND 261 DID NOT CAUSE SKIN IRRITATION OR SENSITIZATION IN A GROUP OF HUMAN VOLUNTEERS.

DESCRIPTORS ***** HUMANS; EFFECTS; IRRITATION OF SKIN; PATCH TEST; SENSITIZATION; GEON 135;
HELD TERMS GEON 264; GEON 261;
KWIC INDEX NUMBER 00539TOXS
REVIEW YEAR 1990

ITEM 105

ACCESSION NUMBER 1544
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT SKIN TESTING WITH POLYVINYL CHLORIDE FILM AND TO A NEW FORMULA LATEX AND TO A RUBBER STOCK USED IN THE MANUFACTURE OF GLOVES
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-BRECKSVILLE,F.M.MCDONALD (AKRON DERMATOLOGIST)
DATE 1971, JAN-FEB.
ABSTRACT GEON 950X1 AND 460X1 CAUSED SKIN IRRITATION,BUT NOT SENSITIZATION, IN HUMAN VOLUNTEERS. NO IRRITATION OR SENSITIZATION WAS OBSERVED WITH FABRICS IMPREGNATED WITH THESE MATERIALS.

DESCRIPTORS ***** GEON 460X1; HUMAN PATCH TEST; EFFECTS; HUMANS; IRRITATION OF SKIN; SENSITIZATION;
HELD TERMS GEON 950X1;
KWIC INDEX NUMBER 00537TOXS
REVIEW YEAR 1990

ITEM 106

ACCESSION NUMBER 1540
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT EFFECT OF CERTAIN POLYVINYL CHLORIDES WHEN IN CONTACT SKIN WITH THE SKIN
AUTHOR/AFFILIATION NONE,NONE;

BFG52730

20898042

ORIGIN BFG-BRECKSVILLE, F.H. McDONALD (AKRON DERMATOLOGIST)
DATE 1966, APRIL-MAY
ABSTRACT GEONS 103EPF7, 120X203, 202, AND 121 WERE EVALUATED IN A HUMAN PATCH TEST. NO EVIDENCE OF IRRITATION OR SENSITIZATION WAS OBSERVED.
DESCRIPTORS ***** HUMAN PATCH TEST; EFFECTS; HUMANS; SENSITIZATION; POLYVINYL CHLORIDE;
HELD TERMS GEON 103EPF7; GEON 120X203; GEON 202; GEON 121;
KWIC INDEX NUMBER 00531TOXS
REVIEW YEAR 1990

ITEM 107

ACCESSION NUMBER 1533
FILE LOCATION GEN
DOCUMENT TYPE COMPANY CORR
TITLE OR SUBJECT FDA STATUS OF TERTIARY BUTYL PEROXY-PIVALATE IN FOOD CONTAINER PVC RESINS
AUTHOR/AFFILIATION KUZMA GJ, NONE;
ORIGIN NONE, TO BFG-AVON LAKE;
DATE 1974, MARCH 4
ABSTRACT 1968 FDA OPINION THAT TERTIARY BUTYL PEROXY-PIVALATE (74-76%) WITH 0.3-0.5% TERT-BUTYL HYDROPEROXIDE, 0.3% TERT-BUTYL ALCOHOL, 0.1% D-TERT-BUTYL PEROXIDE, AND MINERAL SPIRITS (REMAINDER) MEETS REQUIREMENTS OF 121.2594 AND 121.2558.

DESCRIPTORS ***** POLYVINYL CHLORIDE; CFR178.3650; CFR178.3530; FDA ACCEPTANCE;
HELD TERMS TERTIARY BUTYL PEROXY-PIVALATE;
KWIC INDEX NUMBER 00510CORR
REVIEW YEAR 1988

ITEM 108

ACCESSION NUMBER 1528
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT EXTRACTABILITY OF ORGANOTIN STABILIZERS FROM RIGID PVC
AUTHOR/AFFILIATION ZWICKER BMG, BFG-CHEMICAL;
ORIGIN BFG-CHEMICAL, TO M & T CORP;
DATE 1962, JULY 18
DESCRIPTORS ***** EXTRACTION TEST; ORGANOTIN STABILIZERS; POLYVINYL CHLORIDE; THERMOLITE-31; THERMOLITE-831;
HELD TERMS GEON 8750; M-2170; LS-8073;
KWIC INDEX NUMBER 00501REPO
REVIEW YEAR 1988

ITEM 109

ACCESSION NUMBER 1483
FILE LOCATION GEN
DOCUMENT TYPE INDUSTRY REPORT
TITLE OR SUBJECT TEST RESULTS FOR ALCOHOLIC BEVERAGES IN OCTYL TIN STABILIZED PVC BOTTLES
AUTHOR/AFFILIATION LARKIN WA, M & T CHEMICAL INC;
ORIGIN M & T CHEMICAL INC, TO INTERNAL REVENUE;
DATE 1969, OCTOBER 21
ABSTRACT M & T PETITION TO FDA REGARDING EXTRACTION OF DI-N-OCTYL TIN COMPOUND FOR 21CFR121.2602 AND

20898042

5 Skin

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20898043

121.2526(C) FOR ALCOHOLIC BEVERAGES. EXTRACTION DATA IS INCLUDED.
DESCRIPTORS ***** POLYVINYL CHLORIDE; FDA; ORGANOTIN STABILIZERS; CFR178.2450; EXTRACTION;
KWIC INDEX NUMBER 00436REPO
REVIEW YEAR 1988

ITEM 110

ACCESSION NUMBER 1477
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT THE USE OF INERT PLASTIC MATERIAL IN RECONSTRUCTIVE SURGERY:PART 1.A BIOLOGICAL TEST FOR TISSUE
ACCEPTANCE;PART II.TISSUE S TO COMREACTIONS TO COMMONLY USED MATERIALS
AUTHOR/AFFILIATION CALNAN J,NONE;
ORIGIN NONE,VOL 16 NO.11
DATE 1963, JANUARY
DESCRIPTORS ***** RAT; POLYVINYL CHLORIDE; PLASTICS; CANCER;
HELD TERMS IMPLANTS;BRITISH J OF PLASTIC SURGERY;UNIV OF LONDON;
KWIC INDEX NUMBER 00429PUBL
REVIEW YEAR 1990

ITEM 111

ACCESSION NUMBER 1470
FILE LOCATION GEN
DOCUMENT TYPE COMPANY CORR
TITLE OR SUBJECT FDA STATUS OF X-1304 AMBER COLOR CONCENTRATE
AUTHOR/AFFILIATION BERGER RL,NONE;
ORIGIN NONE,TO BFG-CHEMICAL;
DATE 1969, AUGUST 20
ABSTRACT SUBSTANCES USED IN X-1304 AMBER COLOR CONCENTRATE HAVE FDA CLEARANCE. A MATERIAL FOR USE IN A
PVC (GEON 85692 AMBER 040) BOTTLE COMPOUND.
DESCRIPTORS ***** FDA ACCEPTANCE; POLYVINYL CHLORIDE;
HELD TERMS CONTINENTAL CAN;GEON 85692 AMBER 040;X-1304 AMBER COLOR CONCENTRATE;
KWIC INDEX NUMBER 00421CORR
REVIEW YEAR 1988

ITEM 112

ACCESSION NUMBER 1463
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT MORTALITY AMONG VINYL CHLORIDE WORKERS:ABSTRACT ONLY
AUTHOR/AFFILIATION MONSON RR,NONE;
ORIGIN NONE,NONE;
DATE 1974, AUGUST 17
DESCRIPTORS ***** POLYVINYL CHLORIDE; CANCER;
HELD TERMS THE LANCET;
KWIC INDEX NUMBER 00412PUBL
REVIEW YEAR 1990

BFG52732

20898045

BFG52734

ITEM 116

ACCESSION NUMBER 1448
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT COMPARATIVE TOXICITY OF THERMAL DECOMPOSITION PRODUCTS
AUTHOR/AFFILIATION HOFMANN H TH,NONE;OETTEL H,SAME;
ORIGIN NONE,NONE;
DATE 1969, OCTOBER
ABSTRACT ABS? THE TOXICITY VARIED WITH THE CONDITIONS OF COMBUSTION.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;RAT;EFFECTS;ACUTE;
HELD TERMS NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS;BASF; MODERN PLASTICS;
KWIC INDEX NUMBER 01519
REVIEW YEAR 1995

ITEM 117

ACCESSION NUMBER 1447
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT RELATIVE TOXICITY OF THERMAL DECOMPOSITION PRODUCTS OF EXPANDED POLYSTYRENE
AUTHOR/AFFILIATION HOFMANN H TH,NONE;OETTEL H,NONE;
ORIGIN NONE,SECOND INFORMATORY MEETING OF GERMAN BUILDING AUTHORITIES;
DATE 1967, SEPTEMBER 20
ABSTRACT TOXIC RESPONSE VARIED WITH THE CONDITIONS OF COMBUSTION.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;RAT;EFFECTS;ACUTE;
HELD TERMS SYNTHETIC PRODUCTS;NATURAL PRODUCTS;SMALL SCALE TESTS;BASF;
KWIC INDEX NUMBER 01518
REVIEW YEAR 1995

ITEM 118

ACCESSION NUMBER 1445
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT RELATIVE TOXICITY OF PYROLYSIS GASES FROM MATERIALS: EFFECTS OF CHEMICAL COMPOSITION AND TEST
CONDITIONS
AUTHOR/AFFILIATION HILADO CJ,NONE;CUMMING HJ,SAME;
ORIGIN NONE,VOL 2 NO.2 PP.68-79;
DATE 1978
ABSTRACT RELATIVE TOXICITY TEST DATA ON 270 MATERIALS ARE PRESENTED,BASED ON TEST PROCEDURES DEVELOPED AT
THE UNIV OF SAN FRANCISCO.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;EFFECTS;ACUTE;MICE;
HELD TERMS NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS; UNIV OF SAN FRANCISCO;FIRE AND MATERIALS;
REVIEW YEAR 1995

ITEM 119

ACCESSION NUMBER 1444

20898046

FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT RELATIVE TOXICITY OF MATERIALS IN FIRE SITUATIONS
AUTHOR/AFFILIATION HILADO C.J.;NONE;CARTING H.J.;SAME;CASEY C.J.;SAME;
ORIGIN NONE,PP.92-96;
DATE 1978, APRIL
ABSTRACT PVC WAS ONE OF THE LEAST TOXIC MATERIALS TESTED.
DESCRIPTORS *****
HELD TERMS COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;EFFECTS;ACUTE;NICE;
REVIEW YEAR NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS; UNIV OF SAN FRANCISCO;MODERN PLASTICS;
1995

ITEM 120

ACCESSION NUMBER 1441
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT BACKCOATING,CHAR YIELD,AND TOXICITY OF PYROLYSIS GASES FROM FABRICS
AUTHOR/AFFILIATION HILADO C.J.;NONE;BRAUER DP.;NONE;
ORIGIN NONE,VOL 8 PP.323-332;
DATE 1979, APRIL
ABSTRACT VARIOUS SAMPLES OF FABRICS WERE EVALUATED FOR TOXICITY OF PYROLYSIS GASES, USING THE USE
TOXICITY SCREENING TEST METHOD, AND THE DATA WERE RELATED TO BACKCOATING CONTENT AND CHAR YIELD.
THE SAMPLES CONSISTED OF 18 FURNITURE UPHOLSTERY FABRICS, 10 AIRCRAFT FABRICS, AND 6 APPAREL
FABRICS. IN THE CASE OF FURNITURE UPHOLSTERY FABRICS OF KNOWN BACKCOATING CONTENTS,CHAR YIELD
GENERALLY INCREASED WITH BACKCOATING, AND WAS HIGHER FOR CELLULOSIC (COTTON AND RAYON) FABRICS
THAN FOR NYLON FABRICS. IN THE CASE OF THE RAYON FURNITURE FABRICS AND THE MAJORITY OF THE
AIRCRAFT FABRICS,TIME TO DEATH TENDED TO INCREASE WITH INCREASING CHAR YIELD.
COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;NICE;EFFECTS;ACUTE;
NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS;;J OF COATED FABRICS;UNIV OF SAN FRANCISCO;
1995

DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

ITEM 121

ACCESSION NUMBER 1440
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT TOXICITY OF OFF-GASES FROM THERMAL INSULATION
AUTHOR/AFFILIATION HILADO C.J.;NONE;HUTTLINGER PA.;SAME;
ORIGIN NONE,VOL 4 PP.276-287;
DATE 1981, APRIL
ABSTRACT

TOXICITY TEST DATA ON THE OFF-GASES FROM VARIOUS THERMAL INSULATION MATERIALS ARE PRESENTED IN
THIS PAPER.
DESCRIPTORS *****
HELD TERMS COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;EFFECTS;NICE; ACUTE;
NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS; J OF THERMAL INSULATION;PRODUCT SAFETY
CORP;
REVIEW YEAR 1995

ITEM 122

ACCESSION NUMBER 1438

BFG52735

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FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT RELATIVE TOXICITY OF THE PYROLYSIS PRODUCTS FROM SOME THERMOPLASTIC AND THERMOSET POLYMERS
AUTHOR/AFFILIATION HILADO CJ,NONE;CUMMING HJ,SAME;KOURTIDES DA,NONE;GILMEE HJ JR,NONE;
ORIGIN SOCIETY OF PLASTICS ENGINEERS;REGIONAL TECHNICAL CONFERENCE CONNECTICUT SECTION;
DATE 1977
ABSTRACT RELATIVE TOXICITY DATA ON THE PYROLYSIS PRODUCTS OF A VARIETY OF THERMOPLASTIC AND THERMOSET POLYMERS ARE PRESENTED. THE DATA ARE PRESENTED IN TERMS OF TIME TO INCAPACITATION AND TIME TO DEATH WITH A FIXED SAMPLE WEIGHT OF 1.0 G, AND IN TERMS OF THE APPARENT LETHAL CONCENTRATION REQUIRED TO PRODUCE 50% MORTALITY WITHIN A FIXED EXPOSURE PERIOD OF 30 MIN.
DESCRIPTORS ***** COMBUSTION;TOXICITY;POLYVINYL CHLORIDE;THERMAL DECOMPOSITION;MICE;EFFECTS;ACUTE;
HELD TERMS UNIV OF SAN FRANCISCO;NASA AMES RESEARCH CENTER;SYNTHETIC PRODUCTS; SMALL SCALE TESTS;
REVIEW YEAR 1995

ITEM 123

ACCESSION NUMBER 1436
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT CONCENTRATION-TIME DATA IN TOXICITY TESTS AND RESULTING RELATIONSHIPS
AUTHOR/AFFILIATION HILADO CJ,NONE;BRAUER DP,SAME;
ORIGIN J OF COMBUSTION TOXICOLOGY,VOL 6 PP.1365-149;
DATE 1979, MAY
ABSTRACT NUMERICALLY,PVC WAS LESS TOXIC THAN WOOD.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;EFFECTS;ACUTE;MICE;POLYVINYL CHLORIDE;
HELD TERMS NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS;UNIV OF SAN FRANCISCO;
REVIEW YEAR 1995

ITEM 124

ACCESSION NUMBER 1435
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SCREENING MATERIALS FOR RELATIVE TOXICITY IN FIRE SITUATIONS
AUTHOR/AFFILIATION HILADO CJ,NONE;
ORIGIN NONE,PP.64-68;
DATE 1977, JULY
ABSTRACT RESULTS OF SCREENING TESTS OF MATERIALS FOR RELATIVE TOXICITY UNDER SPECIFIC SETS OF CONDITIONS ARE PRESENTED. VARIATIONS IN THE MATERIAL, IN LAB ANIMALS, AND IN THE TEST PRESENTLY PERMIT IDENTIFICATION OF MAJOR RATHER THAN MINOR DIFFERENCES AMONG MATERIALS. CORRELATION WITH RELATIVE PERFORMANCE IN REAL FIRE SITUATIONS IS BASED ON A LIMITED NUMBER OF COMPARISONS. NUMERICALLY,PVC WAS LESS TOXIC THAN MANY WOODS.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;EFFECTS;ACUTE; MICE;
HELD TERMS SYNTHETIC PRODUCTS;NATURAL PRODUCTS;SMALL SCALE TESTS;MODERN PLASTICS;
REVIEW YEAR 1995

ITEM 125

ACCESSION NUMBER 1434
FILE LOCATION GEN

BFG52736

20898048

DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

JOURNAL

A COMPARATIVE REVIEW OF THE COMBUSTION TOXICITY OF POLYVINYL CHLORIDE

HINDERER RK,BF GOODRICH CO;

NONE,VOL 2 PP.82-97;

1984, JANUARY-FEBRUARY

IN CONCLUSION,ALL OF THE COMBUSTION TOXICITY STUDIES DESCRIBED ABOVE SHOW THAT THE RELATIVE TOXICITY OF A MATERIAL CAN VARY DEPENDING ON MANY FACTORS SUCH AS THE TEMPERATURE OF DECOMPOSITION, THE METHOD OF DECOMPOSITION, THE AIR FLOW, THE HUMIDITY, THE ANIMAL SPECIES, THE ENVIRONMENTAL TEMPERATURE, THE DEGREE OF OXYGEN DEPLETION, AND THE TREATMENT OF THE DATA. STILL, THE FACT REMAINS THAT NUMEROUS INVESTIGATORS FROM ACADEMIA,GOVERNMENT, AND THE PRIVATE SECTOR HAVE FOUND NO EVIDENCE THAT PVC IS EXTREMELY OR UNUSUALLY TOXIC RELATIVE TO NATURAL PRODUCTS. WHILE SOME TEST METHODS INDICATED THAT PVC IS MORE TOXIC THAN CERTAIN NATURAL PRODUCTS, MOST STUDIES HAVE SHOWN THAT THE COMBUSTION TOXICITY OF PVC IS LESS THAN, OR COMPARABLE WITH THAT OF NATURAL PRODUCTS. CONSIDERING THAT LARGE AMOUNTS OF COMBUSTIBLES IN HOMES AND THAT MULTI-STORY BUILDINGS ARE A FACT OF LIFE, THE DATA DOES NOT SUPPORT CONTENTIONS THAT PVC IS UNUSUALLY TOXIC OR HAZARDOUS.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;EFFECTS;ACUTE;
HELD TERMS SMALL SCALE TESTS;J OF FIRE SCIENCES;
REVIEW YEAR 1995

ITEM 126

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT
DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

1433

GEN

PUBLICATION

TOXIC HAZARDS FROM COMMON MATERIALS

HILADD CJ,NONE;HUTTLINGER PA,SAME;

NONE,PP.177-181;

1981

NUMERICALLY PVC WAS LESS TOXIC THAN WOOD.

COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;EFFECTS;ACUTE; MICE;
SMALL SCALE TESTS;NATURAL PRODUCTS;SYNTHETIC PRODUCTS;PRODUCT SAFETY CORP;FIRE TECHNOLOGY;
1995

ITEM 127

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

1432

GEN

PUBLICATION

BIOLOGICAL EVALUATION OF THE TOXICITY OF GASES PRODUCED UNDER FIRE CONDITIONS BY SYNTHETIC MATERIALS. PART 2: BEHAVIOUR OF SYNTHETIC MATERIALS IN DEFINITE COMBUSTION CONDITIONS AS COMPARED TO THE BEHAVIOUR OF TRADITIONAL MATERIALS IN SAME CONDITIONS

AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

HERPOL C,NONE;MINNE R,SAME;

NONE,VOL 12 PP.229-244;

1976

THE AUTHORS COMPARED THE COMBUSTION TOXICITY OF A NUMBER OF NATURAL AND SYNTHETIC MATERIALS UNDER A NUMBER OF CONDITIONS. DEPENDING ON THE CONDITIONS,PVC WAS LESS TOXIC OR MORE TOXIC THAN WOOD.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;WOOD;PLASTICS;RAT; EFFECTS;ACUTE
HELD TERMS SMALL SCALE TESTS;NATURAL PRODUCTS;COMBUSTION SCIENCE AND TECHNOLOGY;STATE UNIV OF

BFG52737

20898049

REVIEW YEAR GHEHT(BELGIUM);
1995

ITEM 128

ACCESSION NUMBER 1431
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT THE PHYSIOLOGICAL AND TOXICOLOGICAL ASPECTS OF DEGRADATION PRODUCTS PRODUCED DURING THE COMBUSTION OF POLYVINYL CHLORIDE POLYMERS
AUTHOR/AFFILIATION EINHORN IN, UNIVERSITY OF UTAH; GRUNNET ML, SAME;
ORIGIN NONE, SPECIAL REPORT EL-1263;
DATE 1980
ABSTRACT THE AUTHOR REVIEWS A NUMBER OF FIRES WHERE PVC WAS INVOLVED, THE THERMAL DECOMPOSITION OF PVC, AND COMBUSTION TOXICITY EVALUATIONS OF PVC (INCLUDING DETAILED OBSERVATION, BLOOD PH DETERMINATIONS, AND PATHOLOGY).

DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; EFFECTS; POLYVINYL CHLORIDE; ACUTE; RAT; FIRE
HELD TERMS SMALL SCALE TESTS; ELECTRIC POWER RESEARCH INSTITUTE;
REVIEW YEAR 1995

ITEM 129

ACCESSION NUMBER 1430
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT METHODOLOGY FOR THE STUDY OF TOXICOLOGY IN COMBUSTION: APPLICATION TO PVC
AUTHOR/AFFILIATION EINHORN IN, UNIVERSITY OF UTAH;
ORIGIN NONE, ALL VOL 8 PP. 1519-1528;
DATE 1977
ABSTRACT THE AUTHOR DISCUSSES A NUMBER OF POINTS INCLUDING DELAYED NEUROPATHY-RELATED DEATHS FROM CO, OTHER FACTORS SUCH AS ALCOHOL WHICH AFFECT THE TOXICITY OF CO, IRRITANTS PRODUCED BY WOOD AT DIFFERENT TEMPERATURES, AND THE COMBUSTION TOXICITY OF PVC.

DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; POLYVINYL CHLORIDE; EFFECTS; ACUTE; RAT; WOOD; ACROLEIN;
HELD TERMS ALDEHYDES; CARBON MONOXIDE;
REVIEW YEAR IRRITANTS; SMALL SCALE TESTS; J MACROMOL SCI-CHEM;
1995

ITEM 130

ACCESSION NUMBER 1429
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT RELATIVE TOXICITY OF PYROLYSIS PRODUCTS FROM SOME UPHOLSTERY FABRICS
AUTHOR/AFFILIATION HILADO CJ, NONE; LOPEZ MT, NONE; DAMANT GH, NONE;
ORIGIN NONE, VOL 6 PP. 155-175;
DATE 1977, JANUARY
ABSTRACT TWENTY-TWO SAMPLES OF UPHOLSTERY FABRICS USED IN HOME FURNISHINGS WERE EVALUATED FOR RELATIVE TOXICITY BY MEANS OF THE USF/NASA TOXICITY SCREENING TEST.

DESCRIPTORS ***** COMBUSTION; TOXICITY; THERMAL DECOMPOSITION; POLYVINYL CHLORIDE; EFFECTS; ACUTE; MICE;
HELD TERMS SYNTHETIC PRODUCTS; NATURAL PRODUCTS; SMALL SCALE TESTS; UNIV OF SAN FRANCISCO; STATE OF CALIFORNIA;

BFG52738

J COATED FABRICS;
REVIEW YEAR 1995

ITEM 131

ACCESSION NUMBER 1427
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT MATERIALS TOXICOLOGY EVALUATION BY DIRECT ANIMAL EXPOSURE
AUTHOR/AFFILIATION SMITH PM,NONE;CRANE CR,NONE;SANDERS D,NONE;ABBOTT J,NONE; ENDECOTT B,NONE;
ORIGIN UNIVERSITY OF UTAH,INTERNATIONAL SYMPOSIUM ON TOXICITY AND PHYSIOLOGY OF COMBUSTION PRODUCTS;
DATE 1976, MARCH 22-26
ABSTRACT THE AUTHORS REPORT THE COMBUSTION TOXICITY OF NUMEROUS NATURAL AND SYNTHETIC MATERIALS.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;EFFECTS;RAT;ACUTE;POLYVINYL CHLORIDE; PLASTICS;
HELD TERMS FAA;DEPT OF TRANSPORTATION;DOT;SMALL SCALE TESTS;NATURAL PRODUCTS;
REVIEW YEAR 1995

ITEM 132

ACCESSION NUMBER 1398
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT EXPERIMENTAL TOXICOLOGY OF PYROLYSIS AND COMBUSTION HAZARDS
AUTHOR/AFFILIATION CORNISH HH,UNIVERSITY OF MICHIGAN;HAHN KJ,SAME;BARTH HL,SAME;
ORIGIN ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 11 PP.191-196;
DATE 1975
ABSTRACT UNDER STATIC CONDITIONSPVC WAS NUMERICALLY THE LEAST TOXIC MATERIAL TESTED ,AND WHILE UNDER
DYNAMIC CONDITIONS IT RANKED NEAR THE MIDDLE.
DESCRIPTORS ***** COMBUSTION;TOXICITY;POLYVINYL CHLORIDE;PLASTICS;THERMAL DECOMPOSITION;RAT; EFFECTS;ACUTE;
HELD TERMS NATURAL PRODUCTS;SMALL SCALE TESTS;
REVIEW YEAR 1995

ITEM 133

ACCESSION NUMBER 1397
FILE LOCATION GEN
DOCUMENT TYPE SYMPOSIUM
TITLE OR SUBJECT TOXICITY OF THERMAL-DEGRADATION PRODUCTS OF PLASTICS
AUTHOR/AFFILIATION CORNISH H,UNIVERSITY OF MICHIGAN;
ORIGIN NONE,SYMPOSIUM FOR PRODUCTS OF COMBUSTION OF BUILDING MATERIALS;
DATE 1973
ABSTRACT UNDER STATIC CONDITION PVC WAS (NUMERICALLY) THE LEAST TOXIC MATERIAL TESTED,BUT WHILE UNDER
DYNAMIC CONDITIONS IT RANKED NEAR THE MIDDLE.
DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;RAT;EFFECTS;ACUTE; POLYVINYL CHLORIDE;PLASTICS;
HELD TERMS SMALL SCALE TESTS;NATURAL PRODUCTS;
REVIEW YEAR 1995

ITEM 134

ACCESSION NUMBER 1396

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FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT
 AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

GEN
 PUBLICATION
 TOXICITY OF PYROLYSIS PRODUCTS OF VINYL PLASTICS
 CORNISH HH,NONE;ABAR EL,NONE;
 ARCHIVES OF ENVIRONMENTAL HEALTH,VOL 19 PP.15-21;
 1969, JULY

POLYVINYL CHLORIDE POLYMERS AND FORMULATIONS WERE PYROLYZED IN A STREAM OF AIR BY GRADUALLY RAISING THE TEMPERATURE FROM AMBIENT TO APPROXIMATELY 600 C. THE PYROLYSIS AIR STREAM WAS DILUTED WITH TWICE ITS VOLUME OF ROOM AIR, AND RATS WERE EXPOSED TO IT. MOST DEATHS WERE DUE TO CARBON MONOXIDE (CO), AND CARBOXYHEMOGLOBIN (COHB) LEVELS CORRELATED WELL WITH THE AMOUNT OF PLASTIC PYROLYZED. LITTLE HISTOLOGICAL EVIDENCE OF LUNG DAMAGE WAS EVIDENT. WHEN OXYGEN (O2) WAS ADDED TO THE AIR STREAM TO PREVENT DEATHS FROM CO,PULMONARY EDEMA AND INTERSTITIAL HEMORRHAGE DEVELOPED. THE LUNGS OF SOME ANIMALS EXPOSED TO HIGH LEVELS OF PYROLYSIS PRODUCTS OF VINYL CHLORIDE-VINYL ACETATE COPOLYMER ALSO SHOWED FOCAL EDEMA AND INTRA-ALVEOLAR HEMORRHAGE. POLYVINYL CHLORIDE FORMULATIONS, CONTAINING ADDITIVES AND INERT MATERIALS, WERE IN GENERAL LESS TOXIC PER GRAM OF SAMPLE PYROLYZED.

DESCRIPTORS ***** COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;POLYVINYL CHLORIDE;RAT;EFFECTS;ACUTE;
 HELD TERMS SMALL SCALE TESTS;
 REVIEW YEAR 1992

ITEM 135

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT

1395
 GEN
 JOURNAL
 PROTECTIVE EFFECT OF WATER AGAINST TOXICITY OF PYROLYSIS AND COMBUSTION PRODUCTS OF WOOD AND POLY(VINYL CHLORIDE)

AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

BOUDENE C,NONE;JOUANY JM,NONE;TRUAUT R,NONE;
 NONE,A11 NO.8 PP.1529-1545;
 1977

WATER PROTECTED AGAINST FUMES FROM BOTH PVC (HCL AND PARTICULATE) AND WOOD (ALDEHYDES AND PARTICULATE). CO WAS NOT TRAPPED.

DESCRIPTORS ***** COMBUSTION;TOXICITY;RABBIT;POLYVINYL CHLORIDE;THERMAL DECOMPOSITION;EFFECTS;ACUTE;
 HELD TERMS SMALL SCALE TESTS;J MACROMOL SCI-CHEM;LABORATORY OF TOXICOLOGY (FRANCE);
 COMMENTS RKH(85) BASED ON THE CONCLUSIONS,THE COLUMNS "WITH WATER" AND "WITHOUT WATER" WERE TRANSPOSED.
 REVIEW YEAR 1995

ITEM 136

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT
 AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

1393
 GEN
 PUBLICATION
 SMOKE AND TOXICITY HAZARDS OF PLASTICS IN FIRE
 BOWES PC,NONE;
 ANNALS OF OCCUPATIONAL HYGIENE,VOL 17 PP.143-147;
 1974

AMONG FATAL AND NON-FATAL CASUALTIES IN FIRES IN BUILDINGS, THE ANNUAL PROPORTION DUE TO SMOKE AND TOXIC GAS HAS INCREASED THREEFOLD OVER A PERIOD OF SEVENTEEN YEARS;OVER HALF THE TOTAL FATALITIES IN FIRES ARE NOT DUE TO THIS CAUSE. THIS PAPER BRIEFLY REVIEWS THE PROBLEM OF SMOKE AND TOXIC GASES IN FIRES AND DESCRIBES INVESTIGATIONS AIMED AT DETERMINING WHETHER THE

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INTRODUCTION OF NON-TRADITIONAL MATERIALS, PRINCIPALLY PLASTICS, INTO BUILDINGS IS LIKELY TO MAKE A SIGNIFICANT INCREASE IN THE NUMBERS OF FIRE CASUALTIES OVERCOME BY GAS OR SMOKE. THE INVESTIGATIONS COVERED THE PYROLYSIS OF PLASTICS UNDER LABORATORY CONDITIONS, LARGE-SCALE FIRE TESTS IN WHICH THE GENERATION AND SURVIVAL OF SIGNIFICANT TOXIC PRODUCTS WERE MONITORED, AND MEASUREMENTS OF THE TOXICITY OF FIRE GASES. RESULTS ARE GIVEN FOR RIGID PVC USED AS WALL LININGS AND FOR FLEXIBLE POLYURETHANE FOAM BURNING IN BULK. IT IS CLEAR THAT LARGE INDUSTRIAL FIRE LOADS OF THESE MATERIALS CAN PRODUCE AN UNACCEPTABLE HAZARD, BUT FURTHER WORK IS NEEDED BEFORE CONCLUSIONS CAN BE REACHED FOR FIRE LOADS RELEVANT TO, FOR EXAMPLE, PRIVATE DWELLINGS.

DESCRIPTORS ***** COMBUSTION; TOXICITY; POLYVINYL CHLORIDE; FIRE; THERMAL DECOMPOSITION; OPTICAL DENSITY;
COMMENTS RKH(85) FIG. 7 SHOWS THAT THE OPTICAL DENSITY WITH WOOD (127KG) IS HIGHER THAN FOR WOOD AND PVC (127 AND 100 KG) COMBINED.
REVIEW YEAR 1995

ITEM 137

ACCESSION NUMBER 1390
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SENSORY IRRITATION EVOKED BY THE THERMAL DECOMPOSITION PRODUCTS OF PLASTICIZED POLY(VINYL CHLORIDE)
AUTHOR/AFFILIATION BARROW CS, UNIVERSITY OF PITTSBURGH; ALARIE Y, SAME; STOCK WF, SAME;
ORIGIN NONE, VOL 1 PP. 147-153;
DATE 1976
ABSTRACT THE AUTHORS PREDICT THAT THE RD50 FOR PVC AND OTHER COMPOUNDS WILL BE RAPIDLY INCAPACITATING. STUDIES BY POTTS AND LEDERER AND BY FAA (STUDIES WITH BABOONS AT SOUTHWEST RESEARCH INSTITUTE/KAPLAN ET AL 1984) HAVE SHOWN THAT THIS PREDICTION IS UNFOUNDED.

DESCRIPTORS ***** COMBUSTION; TOXICITY; PLASTICS; POLYVINYL CHLORIDE; HYDROGEN CHLORIDE; EFFECTS; ACUTE; MICE; THERMAL DECOMPOSITION;
HELD TERMS FIRE AND MATERIALS; SMALL SCALE TESTS;
KWIC INDEX NUMBER 01869
REVIEW YEAR 1995

ITEM 138

ACCESSION NUMBER 1389
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT A COMPARISON OF THE ACUTE INHALATION TOXICITY OF HYDROGEN CHLORIDE VERSUS THE THERMAL DECOMPOSITION PRODUCTS OF POLYVINYLCHLORIDE
AUTHOR/AFFILIATION BARROW CS, UNIVERSITY OF PITTSBURGH; LUCIA H, SAME; ALARIE YC, SAME;
ORIGIN J OF COMBUSTION TOXICOLOGY, VOL 6 PP. 3-12;
DATE 1979, FEBRUARY
ABSTRACT THE AUTHORS CONCLUDE THAT HCL APPEARS TO BE THE PRINCIPLE CONTRIBUTOR TO THE TOXICITY OF PVC. THIS, HOWEVER, IS MORE THE RESULT OF THE UNIV OF PITTSBURGH'S TEST DESIGN; IT WAS SPECIFICALLY DESIGNED TO MINIMIZE THE EFFECT OF CO AND WAS INTENDED FOR STUDIES OF IRRITANT GASES. BECAUSE OF THE CHAMBER SIZE, FLOW RATE AND METHOD OF COMBUSTION, CO IS BLOWN THROUGH THE CHAMBER AND IS NEVER ALLOWED TO ACCUMULATE. THE REAL QUESTION IS WHETHER THIS TEST SYSTEM HAS ANY RESULT OF THE UNIV OF PITTSBURGH'S TEST DESIGN. IT WAS SPECIFICALLY +RELEVANCE TO REAL WORLD FIRES.
DESCRIPTORS ***** COMBUSTION; TOXICITY; POLYVINYL CHLORIDE; THERMAL DECOMPOSITION; EFFECTS; ACUTE; MICE;
HELD TERMS SMALL SCALE TESTS;

REVIEW YEAR 1995

ITEM 139

ACCESSION NUMBER 1388
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT DEVELOPMENT OF METHODOLOGIES TO ASSESS THE RELATIVE HAZARDS FROM THERMAL DECOMPOSITION PRODUCTS OF POLYMERIC MATERIALS
AUTHOR/AFFILIATION BARROW CS, UNIVERSITY OF PITTSBURGH; LUCIA H, SAME; STOCK MF, SAME; ALARIE Y, SAME;
ORIGIN AMERICAN INDUSTRIAL HYGIENE ASSOCIATION, VOL 40 PP. 408-423;
DATE 1979, MAY
ABSTRACT THE PHYSIOLOGICAL STRESS IMPOSED UPON MICE DUE TO THE IRRITATING PROPERTIES OF THERMAL DECOMPOSITION PRODUCTS OF POLYMERIC MATERIALS WAS EVALUATED. ACUTE LETHALITY AND HISTOPATHOLOGICAL EVALUATIONS WERE INCLUDED IN THE STUDY. THE RANKINGS OF THE POLYMERIC MATERIALS STUDIED FROM MOST TO LEAST HAZARDOUS WAS CONCLUDED TO BE POLYTETRAFLUOROETHYLENE, POLYVINYL CHLORIDE, DOUGLAS FIR, AND POLYTETRAFLUOROETHYLENE, POLYVINYL CHLORIDE, DOUGLAS FIR AND FLEXIBLE POLYURETHANE FOAM, FIBER GLASS REINFORCED POLYESTER, COPPER COATED WIRE WITH MINERAL INSULATION.
DESCRIPTORS ***** POLYVINYL CHLORIDE; COMBUSTION; TOXICITY; PLASTICS; EFFECTS; ACUTE; MICE; THERMAL DECOMPOSITION;
HELP TERMS NATURAL PRODUCTS; SMALL SCALE TESTS;
KWIC INDEX NUMBER 04655
COMMENTS RKH(85) PATHOLOGY EVALUATIONS OF UPPER RESPIRATORY TRACT SHOWS DAMAGE FROM BOTH PVC-A AND DOUGLAS FIR. SOMEWHAT HIGHER SCORES AT LOWER DOSES WAS OBSERVED WITH PVC-A.

REVIEW YEAR 1995

ITEM 140

ACCESSION NUMBER 1387
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SENSORY IRRITATION AND INCAPACITATION EVOKED BY THERMAL DECOMPOSITION PRODUCTS OF POLYMERS AND COMPARISONS WITH KNOWN SENSORY IRRITANTS
AUTHOR/AFFILIATION BARROW CS, UNIVERSITY OF PITTSBURGH; ALARIE Y, SAME; STOCK MF, SAME;
ORIGIN ARCHIVES OF ENVIRONMENTAL HEALTH, VOL 33 PP. 79-88;
DATE 1978, MARCH/APRIL
ABSTRACT A DECREASE IN RESPIRATORY RATE IN MICE DURING EXPOSURE TO IRRITATING AIRBORNE CHEMICALS HAS BEEN UTILIZED AS A RESPONSE PARAMETER TO CHARACTERIZE THE DEGREE OF UPPER RESPIRATORY TRACT IRRITATION (SENSORY IRRITATION) TO THE THERMAL DECOMPOSITION PRODUCTS OF VARIOUS POLYMERS. THESE INCLUDED POLYSTYRENE, POLYVINYL CHLORIDE, FLEXIBLE POLYURETHANE FOAM, POLYTETRAFLUOROETHYLENE, A FIBER GLASS REINFORCED POLYESTER RESIN, AND DOUGLAS FIR. EACH OF THE MATERIALS WAS THERMALLY DECOMPOSED IN A LOW-MASS VERTICAL FURNACE IN AN AIR ATMOSPHERE AT A PROGRAMMED HEATING RATE OF 200 DEGREES C/MIN. MICE, IN GROUPS OF FOUR, WERE EXPOSED TO GRADED CONCENTRATIONS OF THE THERMAL DECOMPOSITION PRODUCTS OF EACH OF THE ABOVE MATERIALS. DOSE-RESPONSE CURVES WERE OBTAINED BY UTILIZING THE MAXIMUM PERCENT DECREASE IN RESPIRATORY RATE AS THE RESPONSE PARAMETER DURING EACH EXPOSURE. COMPARISON OF THESE DOSE-RESPONSE CURVES WITH OTHER SENSORY IRRITANTS SUCH AS CHLORINE, AMMONIA, HYDROGEN CHLORIDE, SULFUR DIOXIDE, AND TOLUENE DIISOCYANATE GAVE AN INDICATION OF THE SENSORY IRRITATION POTENTIAL OF THE THERMAL DECOMPOSITION PRODUCTS OF THESE VARIOUS POLYMERS VERSUS THAT OF WELL-KNOWN SINGLE AIRBORNE CHEMICAL IRRITANTS. TOTAL STRESS AND INCAPACITATION OF THE ORGANISM DURING EXPOSURE TO SENSORY IRRITANTS SUCH AS FROM THE THERMAL DECOMPOSITION PRODUCTS OF SYNTHETIC POLYMERS IS DISCUSSED.

BFG52742

DESCRIPTORS ***** COMBUSTION;TOXICITY;POLYVINYL CHLORIDE;PLASTICS;MICE;EFFECTS;THERMAL DECOMPOSITION; NATURAL PRODUCTS;SMALL SCALE TESTS; KMIC INDEX NUMBER 03649

COMMENTS RKH(65) RDSO (M/L)--PVC LESS TOXIC THAN WOOD.

REVIEW YEAR 1995

ITEM 141

1386

FILE LOCATION

GEN

DOCUMENT TYPE

PUBLICATION

TITLE OR SUBJECT

ALARIE Y,SAME;

ORIGIN

DATE

ABSTRACT

IN ORDER TO EVALUATE THE PERFORMANCE OF THE INDICES OF TOXICITY WHICH HAVE BEEN DEVELOPED, THERMAL DECOMPOSITION PRODUCTS OF THREE POLYMERS, POLYVINYLCHLORIDE,POLYCHLOROPRENE,AND POLYCARBONATE WERE TESTED FOR SENSORY IRRITATION,PHYSIOLOGICAL STRESS INDUCTION, AND ACUTE LETHALITY. EACH POLYMER HAS BEEN CONTRASTED WITH THE SAME POLYMER CONTAINING 5% ZINC FERROCYANIDE. THE MOST IRRITATING AND THE MOST STRESSFUL PYROLYSIS PRODUCTS WERE THOSE FROM POLYVINYLCHLORIDE. THE LEAST IRRITATION AND STRESS WERE ASSOCIATED WITH POLYCARBONATE DECOMPOSITION PRODUCTS. THE ACUTE LETHALITY FOR POLYCHLOROPRENE WAS HIGHER THAN THAT OF THE OTHER TWO POLYMERS BY A FACTOR OF 4. THE ADDITION OF ZINC FERROCYANIDE HAD A VARIABLE EFFECT,DEPENDING ON THE POLYMER AND THE INDEX OF TOXICITY BEING EVALUATED. SENSORY IRRITATION WAS LESSENED BY THE PRESENCE OF ZINC FERROCYANIDE IN POLYCARBONATE. THE SAMPLE WEIGHT REQUIRED TO CAUSE DEATH OF 50% OF THE ANIMALS WAS REDUCED FOR THE TWO HYDROGEN CHLORIDE CHLORIDE-GENERATING POLYMERS, POLYVINYLCHLORIDE AND POLYCHLOROPRENE. HOWEVER, THE ACUTE LETHALITY OF POLYCARBONATE DID NOT CHANGE WITH ADDITION OF ZINC FERROCYANIDE. BY ITSELF,ZINC FERROCYANIDE DECOMPOSED VERY SLOWLY DURING HEATING,CAUSED ALMOST NO IRRITATION OR STRESS, AND NO DEATHS.

POLYVINYL CHLORIDE;COMBUSTION;TOXICITY;THERMAL DECOMPOSITION;PLASTICS;EFFECTS; ACUTE;MICE; SENSORY IRRITATION;SMALL SCALE TESTS;

1995

REVIEW YEAR

HELD TERMS

DESCRIPTORS *****

COMBUSTION;TOXICITY;PLASTICS;POLYVINYL CHLORIDE;EFFECTS;ACUTE;MICE; THERMAL DECOMPOSITION; NATURAL PRODUCTS;SMALL SCALE TESTS;

ITEM 142

1385

FILE LOCATION

GEN

DOCUMENT TYPE

REPORT

TITLE OR SUBJECT

ANDERSON R,UNIVERSITY OF PITTSBURGH;ALARIE Y,SAME;

AUTHOR/AFFILIATION

DATE

ABSTRACT

THE AUTHORS SUPPORT GROUPING MATERIALS BY FACTORS OF 10 "TO DISTINGUISH BETWEEN MATERIALS WITH CONFIDENCE." THEY ALSO DISCUSS RATIONALE OF LC50 BASED ON GRAMS RATHER THAN G/L. IT IS ALSO NOTED THAT "THE RANK ORDER WILL CHANGE WITH DIFFERENT EXPOSURE TIMES."

COMBUSTION;TOXICITY;PLASTICS;POLYVINYL CHLORIDE;EFFECTS;ACUTE;MICE; THERMAL DECOMPOSITION; NATURAL PRODUCTS;SMALL SCALE TESTS;

BFG52743

20898054

20898054

REVIEW YEAR 1995

ITEM 143

ACCESSION NUMBER 1384
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT APPROACHES TO THE EVALUATION OF THE TOXICITY OF DECOMPOSITION PRODUCTS OF POLYMERIC MATERIALS UNDER THERMAL STRESS
AUTHOR/AFFILIATION ANDERSON RC, UNIV OF PITTSBURGH; ALARIE YC, SAME;
ORIGIN J OF COMBUSTION TOXICOLOGY, VOL 5 PP. 214;
DATE 1978, MAY
ABSTRACT THERMAL DECOMPOSITION PRODUCTS FROM SEVERAL POLYMERIC MATERIALS WERE INVESTIGATED USING DEATH AND AN INDEX OF TOXICITY. THE DATA WERE ANALYZED IN SEVERAL WAYS AND ARE PRESENTED. IT WAS CONCLUDED THAT A CONCENTRATION-RESPONSE RELATIONSHIP IS ABSOLUTELY ESSENTIAL TO MAKE VALID COMPARISONS BETWEEN MATERIALS AND THAT THE TIME TO A TOXIC EFFECT APPROACH IS NOT BROAD ENOUGH TO PERMIT SUCH COMPARISONS.
DESCRIPTORS ***** PVC; COMBUSTION; TOXICITY; EFFECTS; ACUTE; THERMAL DECOMPOSITION; PLASTICS;
HELD TERMS SMALL SCALE TESTS; NATURAL PRODUCTS;
REVIEW YEAR 1995

ITEM 144

ACCESSION NUMBER 1382
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TOXICOLOGIC CLASSIFICATION OF THERMAL DECOMPOSITION PRODUCTS OF SYNTHETIC AND NATURAL POLYMERS
AUTHOR/AFFILIATION ALARIE Y, UNIV OF PITTSBURGH; ANDERSON RC, SAME;
ORIGIN TOX AND APPLIED, VOL 57 PP. 181-188;
DATE 1981
ABSTRACT A CLASSIFICATION IS PRESENTED FOR THE ACUTE TOXICITY OF SMOKE FROM SYNTHETIC AND NATURAL POLYMERS. THE CLASSIFICATION COMBINES BOTH THE AMOUNT OF POLYMER REQUIRED TO PRODUCE SUFFICIENT SMOKE RESULTING IN 50% MORTALITY (LC50) AND THE EXPOSURE DURATION NEEDED FOR SUCH AN EFFECT (LT50). THE CLASSIFICATION SHOULD BE USEFUL FOR SELECTION OF MATERIALS IN VARIOUS APPLICATIONS.
DESCRIPTORS ***** COMBUSTION; TOXICITY; PLASTICS; PVC; EFFECTS; ACUTE; THERMAL DECOMPOSITION; MICE;
HELD TERMS NATURAL PRODUCTS; SMALL SCALE TESTS;
REVIEW YEAR 1995

ITEM 145

ACCESSION NUMBER 1380
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT TOXICITY OF PLASTIC DECOMPOSITION PRODUCTS
AUTHOR/AFFILIATION BARROW CS, UNIV OF PITTSBURGH; STOCK M, SAME; ALARIE Y, SAME;
ORIGIN UNIV OF PITTSBURGH
DATE 1976, APRIL 6
ABSTRACT IN THIS REPORT ALARIE STATES THAT THE RD50 IS RAPIDLY INCAPACITATING TO HUMANS. HOWEVER, POTTS AND LEDERER HAVE SHOWN THAT THIS IS NOT TRUE. ALARIE ALSO REPORTS HERE THAT THE SENSORY IRRITATION RESPONSE FOR PVC-A, PVC-B, AND PVC-C IS DUE TO SOMETHING MORE THAN HCL ALONE

BFG52744

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PAGE 55 SET 4 WITH 385 OF 385 ITEMS

DESCRIPTORS ***** COMBUSTION;TOXICITY;ACUTE;EFFECTS;HYDROGEN CHLORIDE; THERMAL DECOMPOSITION;PVC;EFFECTS;
EFFECTS;
HELD TERMS RD50;SMALL SCALE TEST; RESPIRATORY DEPRESSION;POLYURETHANE;
REVIEW YEAR 1992

ITEM 146

ACCESSION NUMBER 1378
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT TOXICITY OF SMOKE EMITTED FROM 4 COMMERCIAL SAMPLES WHEN HEATED AT 20 DEGREES C/MINUTES AND
ATTEMPTS TO PROJECT THE HAZARD IN HUMANS
AUTHOR/AFFILIATION ALARIE Y,UNIV OF PITTSBURGH;
ORIGIN UNIV OF PITTSBURGH
DATE 1982, APRIL 5
ABSTRACT THIS IS A REPORT WHERE ANIMALS ARE EXPOSED VIA A TRACHEAL CANNULA SUPPOSEDLY TO COMPENSATE FOR
THE FACT THAT MICE CANNOT MOUTH BREATHE. THIS METHOD IGNORES THE SCRUBBING OF THE BUCCAL CAVITY.
HOWEVER, MORE IMPORTANTLY ALARIE HAS NEVER SHOWN THAT MICE ARE LESS SENSITIVE THAN MAN. HCL AND
CO LEVELS FROM PVC DECOMPOSITION ARE ALSO SHOWN.
DESCRIPTORS ***** COMBUSTION;TOXICITY;PVC;WOOD;ACUTE;EFFECTS;MICE;THERMAL DECOMPOSITION;
HELD TERMS SMALL SCALE TEST;TRACHEAL CANNULATION;
REVIEW YEAR 1995

ITEM 147

ACCESSION NUMBER 1375
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT TOXICOLOGIC AND ACUTE LETHAL HAZARD EVALUATION OF THERMAL DECOMPOSITION PRODUCTS OF SYNTHETIC
AND NATURAL POLYMERS
AUTHOR/AFFILIATION ALARIE YC,UNIV OF PITTSBURGH;ANDERSON RC,SAME;
ORIGIN TOX AND APPLIED,VOL 51 PP.341-362;
DATE 1979
ABSTRACT TOXICOLOGIC AND ACUTE LETHAL HAZARD EVALUATION OF THERMAL DECOMPOSITION THERMAL DECOMPOSITION
PRODUCTS FROM A SERIES OF CELLULAR SYNTHETIC POLYMERS AND SEVERAL OTHER POLYMERS, SYNTHETIC OR
NATURAL, WERE INVESTIGATED. EVALUATION OF SENSORY IRRITATING PROPERTIES, PHYSIOLOGICAL STRESS,
ASPHYXIATION,ACUTE MORTALITY, AND HISTOPATHOLOGICAL CHANGES DUE TO THE THERMAL DECOMPOSITION
PRODUCTS REVEALED A VERY WIDE RANGE OF POTENCY AMONG THEM. A CLASSIFICATION SYSTEM IS PROPOSED
FOR MAKING COMPARISON TO STANDARD MATERIALS SUCH AS WOOD OR FIBERGLASS INSULATION AND AN ACUTE
LETHAL HAZARD SYSTEM IS PRESENTED FOR COMPARISON OF MATERIALS USED FOR THE SAME FUNCTION, I.E.,
INSULATION.
DESCRIPTORS ***** COMBUSTION;TOXICITY;PLASTICS;PVC;EFFECTS;MICE;ACUTE;THERMAL DECOMPOSITION; DECOMPOSITION
PRODUCTS;
HELD TERMS NATURAL PRODUCTS;SYNTHETIC PRODUCTS;SMALL SCALE TESTS;
COMMENTS RKH(85) CO GENERATION FOR DOUGLAS FIR SHOWN ON P.352.
REVIEW YEAR 1995

ITEM 148

ACCESSION NUMBER 1374

20898056

BFG52745

FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

GEN
EPA REPORT
ASSOCIATION BETWEEN BIRTH DEFECTS AND EXPOSURE TO AMBIENT VINYL CHLORIDE
THERIAULT GP,NONE;ITURRA H,NONE;SINGRAS S,NONE;
EPA,REPORT NO. EPA 600/1-81/057;
1981, AUGUST
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

ITEM 149

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

1370
GEN
PUBLICATION
PRENATAL SUSCEPTIBILITY TO CARCINOGENESIS BY XENOBIOTIC SUBSTANCES INCLUDING VINYL CHLORIDE
RICE JM,NCI;
ENVIRONMENTAL HEALTH PERSPECTIVES,VOL 41 PP.179-188;
1981, OCTOBER
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 CHLOROOXIRANE,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 SEE KWIC 04589(PAPER).

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

ITEM 150

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN

1367
GEN
PUBLICATION
SCIENTIFIC AND TECHNICAL ASSESSMENT REPORT ON VINYL CHLORIDE AND POLYVINYL CHLORIDE
NONE,NONE;
EPA,600/6-75-004;

BFG52746

DATE 1975, JUNE
DESCRIPTORS ***** PVC;VCM;HUMAN;EFFECTS;ANALYSIS;RISK ASSESSMENT;EMISSIONS;
REVIEW YEAR 1990

20898058

ITEM 151

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

ITEM 152

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;NITROUREAS;INSTITUTE OF ONCOLOGY (ITALY);
REVIEW YEAR 1991

ITEM 153

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

BFG52747

20898059

ITEM 154

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 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;VCH;VDC;1,4-DIOXANE;EPI;IN VITRO;LYMPHOCYTES;EFFECTS;
HELD TERMS ETHYLENIMINE;IMMUNOLOGIC EFFECT; CYTOTOXICITY;
REVIEW YEAR 1990

ITEM 155

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; RADIKI 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 ***** VCH;LIVER;RATS;ALCOHOL;DRINKING WATER;EFFECTS;CHRONIC;
REVIEW YEAR 1990

BFG52748

ITEM 156

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

ITEM 157

ACCESSION NUMBER 1360
FILE LOCATION GEN
DOCUMENT TYPE CORR
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 158

ACCESSION NUMBER 1359
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT RISK ASSESSMENT OF EXPOSURE TO VINYL CHLORIDE
AUTHOR/AFFILIATION STOTT WT,DOW 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 159

ACCESSION NUMBER 1357
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION

BFG52749

TITLE OR SUBJECT EPIDEMIOLOGIC CONSIDERATIONS IN THE DESIGN OF TOXICOLOGIC STUDIES: AN APPROACH TO RISK
ASSESSMENT IN HUMANS
AUTHOR/AFFILIATION WOODS JS,NIH;
ORIGIN NONE,VOL 38 NO.5 PP.1892-1894
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 160

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;
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 BY BRIAN MAC MAHON,
HARVARD. ALSO SEE KWIC 01433 (PAPER).
DESCRIPTORS ***** VCM;PVC;BIRTH DEFECTS;HUMAN;EFFECTS;EPIDEMIOLOGY;
HELD TERMS OHIO DEPT OF HEALTH;
REVIEW YEAR 1991

ITEM 161

ACCESSION NUMBER 1355
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT MIGRATION OF CHLOROFORM AND CARBON TETRACHLORIDE FROM CPVC PIPE BASED ON STRIPPED RESIN
AUTHOR/AFFILIATION METZGER AP,BFG-CHEMICAL;
ORIGIN BFG-CHEMICAL
DATE 1979, NOVEMBER 8
ABSTRACT METHANOL STRIPPING FACILITIES WERE ADDED TO THE CPVC PLANT TO REDUCE THE AMOUNT OF RESIDUAL
CHLOROFORM AND CARBON TETRACHLORIDE IN THE CPVC RESINS. WIT THE ADDITIONAL STRIPPING, THE RESINS
CONTAIN ABOUT 100-200 PPM OF RESIDUAL SOLVENTS. EXTRACTION OF PIPE MADE WITH THIS RESIN SHOWS
THAT SMALL AMOUNTS OF THE REMAINING CARBON TETRACHLORIDE MIGRATE INTO WTER WHICH IS IN CONTACT
WITH THE PIPE. THE AMOUNT WHICH MIGRATES IS VERY SMALL (<50 PPB).
DESCRIPTORS ***** CPVC;PIPE;MIGRATION;EXTRACTION;CHLOROFORM;CARBON TETRACHLORIDE; POTABLE WATER;
HELD TERMS CHLORONATED HYDROCARBONS;
REVIEW YEAR 1991

ITEM 162

ACCESSION NUMBER 1354
FILE LOCATION GEN

BFG52750

20898062

DOCUMENT TYPE REPORT
TITLE OR SUBJECT PROGRESS REPORT: PLASTIC MATERIALS (CPVC)
AUTHOR/AFFILIATION KOEBEL RF,BFG;
ORIGIN BFG
DATE 1979, SEPTEMBER
ABSTRACT ANALYSES HAVE BEEN COMPLETED TO DETERMINE THE EXTRACTION RATE OF CHLOROFORM AND CARBON TETRACHLORIDE FROM CPVC BY HOT WATER. THE RESIDUALS IN THE WATER RANGED FROM <1 TO 5.5 PPB FOR CCL4 AND FROM 52 TO 90 PPB FOR CHCL3. THE CHCL3 CONTENT OF THE CONTROL WATER RANGED FROM 45 TO 75 PPB WHILE THE CCL4 CONTENT OF THE CONTROL WATER WAS ALWAYS <1 PPB.
DESCRIPTORS ***** CPVC;PIPE;MIGRATION;EXTRACTION;CHLOROFORM;CARBON TETRACHLORIDE; POTABLE WATER;
HELD TERMS CHLORINATED HYDROCARBONS;
REVIEW YEAR 1991

ITEM 163

ACCESSION NUMBER 1353
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT PROGRESS REPORT: PLASTIC MATERIALS(CPVC)
AUTHOR/AFFILIATION KOEBEL RF,BFG;
ORIGIN BFG
DATE 1979, JULY
ABSTRACT THE CPVC GROUP HAD A HOT WATER PIPING SYSTEM CONSTRUCTED TO SIMULATE A TYPICAL DWELLING WATER SYSTEM. RESIDUALS IN THE PIPE AND FITTINGS RANGED FROM 6 TO 159 PPM FOR CHCL3 AND 45 TO 3330 FOR CCL4. THE RESIDUALS IN THE WATER SAMPLES TO DATE HAVE RANGED FROM <1 TO 40 PPB FOR CCL4. CHLOROFORM CONTENT OF THE CONTROL WATER SAMPLE WAS ALWAYS <1 PPB WHICH IS OUR LOWER LIMIT OF DETECTION.
DESCRIPTORS ***** CPVC;PIPE;MIGRATION;EXTRACTION;POTABLE WATER;CHLOROFORM;CARBON TETRACHLORIDE;
HELD TERMS CHLORINATED HYDROCARBONS;
REVIEW YEAR 1991

ITEM 164

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 165

ACCESSION NUMBER 1347
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT EXTRACTION STUDY OF FOOD GRADE BOTTLE COMPOUND 85542
AUTHOR/AFFILIATION MONG FM,BFG-AVON LAKE;

BFG52751

20898063

ORDER NUMBER 860827-135259-WIZ -001-001
PAGE 62 SET 4 WITH 385 OF 385 ITEMS

ORIGIN BFG
DATE 1967, DECEMBER 27
DESCRIPTORS ***** PVC;FDA ACCEPTANCE;EXTRACTION;
HELD TERMS GEON 85542;
REVIEW YEAR 1988

ITEM 166

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

DESCRIPTORS ***** VCM;LIVER;RATS;ANGIOSARCOMA;
REVIEW YEAR 1990

ITEM 167

ACCESSION NUMBER 1343
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT NEOPLASTIC RISK AMONG WORKERS EXPOSED TO VINYL CHLORIDE
AUTHOR/AFFILIATION MAXWEILER RJ,NIOSH;STRINGER M,SAME;WAGONER JK,SAME;JONES J,SAME; FALK H,CDC;CARTER C,SAME;
ORIGIN ANNALS OF THE NEW YORK ACADEMY OF SCIENCES,PP.40-48;
DATE 1976
ABSTRACT IN THE PRESENT STUDY OF WORKERS EXPOSED TO VINYL CHLORIDE, AN EXCESSIVE NUMBER OF DEATHS DUE TO CANCER OF THE SAME FOUR SITES WAS FOUND, VIZ THE LIVER,LUNG,AND THE LYMPHATIC AND CENTRAL NERVOUS 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 KWIC04825 (PAPER).

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

ITEM 168

ACCESSION NUMBER 1311
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT EPIDEMIOLOGICAL STUDY OF VINYL CHLORIDE WORKERS :FINAL REPORT.
AUTHOR/AFFILIATION NONE,NONE;

BFG52752

20898064

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 169

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 170

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

ITEM 171

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

BRG5725

20898065

PRINTOUT FOR GARY JONES
ORDER NUMBER 860827-135259-WIZ -001-001
PAGE 64 SET 4 WITH 385 OF 385 ITEMS

ITEM 172

ACCESSION NUMBER 1305
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL LUNG DISEASE--AGENTS OF INORGANIC ORIGIN
AUTHOR/AFFILIATION WAGNER JC,NONE;
ORIGIN NONE,PP.213-220;
DATE 1977, JUNE
ABSTRACT IN THIS PAPER THE DISEASES ASSOCIATED WITH EXPOSURE TO ASBESTOS, OTHER MINERAL FIBRES,QUARTZ, COAL AND POLYVINYL CHLORIDE ARE DISCUSSED;WITH MORE EMPHASIS ON THE POTENTIAL CARCINOGENIC SEQUELAE THAN PULMONARY FIBROSIS.
DESCRIPTORS ***** PVC;ASBESTOS;LUNG;HUMAN;EFFECTS;FIBROSIS;CHRONIC;
HELD TERMS ROYAL COLLEGE OF PHYSICIANS;
REVIEW YEAR 1991

ITEM 173

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 SERIAL ADDITIVE EXPECTED DOSE MODEL WAS CONSTRUCTED WHICH COMPARED THE DOSES OF THE CHEMICALS OBSERVED FOR THE LUNG CANCER CASES TO THE DOSES EXPECTED BASED ON SUBCOHORTS INDIVIDUALLY MATCHED TO THE CASES. PVC DUST APPEARED TO BE THE MOST LIKELY ETIOLOGIC AGENT. OBSERVED AND EXPECTED DOSES WERE THEN ANALYZED BY YEAR BEFORE DEATH TO UNCOVER THE RELEVANT LATENT PERIOD.
DESCRIPTORS ***** PVC DUST;VCH;LUNG;CARCINOGENICITY;EPIDEMIOLOGY;HUMAN;EFFECTS;
REVIEW YEAR 1991

ITEM 174

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

BFG5275A

20898066

BF0527155

ABSTRACT
WE CONSIDER IT AN ESTABLISHED FACT THAT VINYL CHLORIDE CAN CAUSE CANCER IN HUMANS. NO HUMAN
ACTIVITY, JOB OR HABIT IS WITHOUT SOME RISK, AND HE SHOULD AVOID SETTING UP RULES OR OPINIONS
WHICH WOULD ONLY SERVE TO EXCHANGE ONE KIND OF HAZARD FOR ANOTHER OF POSSIBLY GREATER DIMENSION.
VCM;CANCER;HUMAN;EFFECTS; *****
NORSK HYDRO (NORMAY) 1990

ITEM 175
ACCESSION NUMBER 1292
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT PRELIMINARY REPORT ON THE MEDICAL EXAMINATION OF 266 EMPLOYEES AT THE PVC PLANT, NORSK HYDRO A.S.
PORSGRUNN FABRIKKER
HILLESTAD L,NONE;
NONE,NONE;
DATE 1975, JANUARY 31
ABSTRACT CHROMOSOMAL ABERRATIONS SEEN IN VCM/PVC WORKERS.
VCM;PVC;CHROMOSOMAL ABERRATION;CARCINOGENICITY;HUMAN;EFFECTS; MUTAGENICITY;
NORSK HYDRO (NORMAY) 1990

ITEM 176
ACCESSION NUMBER 1291
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS III. A CLINICAL STUDY
DODSON VN,NONE;DINMAN BD,NONE;WHITEHOUSE MM,NONE;NASR AHM,NONE; WASHJUNSON HJ,NONE;
ARCH ENVIRON HEALTH,VOL 22;
DATE 1971, JANUARY
ACROOSTEOLYSIS;VCM;HUMAN;EFFECTS; 1990

ITEM 177
ACCESSION NUMBER 1290
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS II. AN INDUSTRIAL HYGIENE STUDY
COOK MA,NONE;GIEVER PM,NONE;DINMAN BD,NONE;WASHJUNSON HJ,NONE;
ARCH ENVIRON HEALTH,VOL 22;
DATE 1971, JANUARY
ACROOSTEOLYSIS;HUMAN;EFFECTS;VCM; 1990

ITEM 178
ACCESSION NUMBER 1289
FILE LOCATION GEN

20898067

DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS: I. AN EPIDEMIOLOGICAL STUDY
AUTHOR/AFFILIATION DINMAN BD,NONE;COOK WA,NONE;WHITENHOUSE NH,NONE;MAGALSON HS,NONE; DITCHHECK T,NONE;
ORIGIN ARCH ENVIRON HEALTH,VOL 22;
DATE 1971, JANUARY
DESCRIPTORS ***** ACROOSTEOLYSIS;VCM;EPIDEMIOLOGY;HUMAN;EFFECTS;
REVIEW YEAR 1990

ITEM 179

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 180

ACCESSION NUMBER 1285
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PRODIGININE (PRODIGIOSIN-LIKE) PIGMENTS FROM STREPTOVERTICILLIUM RUBRIRETICULI, AN ORGANISM THAT CAUSES PINK STAINING OF POLYVINYL CHLORIDE
AUTHOR/AFFILIATION GERBER NN,NONE;STAHLY DP,NONE;
ORIGIN NONE,VOL 30 NO.5 PP.807-810;
DATE 1975, NOVEMBER
DESCRIPTORS ***** PVC;BACTERIA;
HELD TERMS MICROORGANISM;APPLIED MICROBIOLOGY; RUTGERS UNIV;UNIV OF IOWA;
REVIEW YEAR 1991

ITEM 181

ACCESSION NUMBER 1283
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT CONCERNING THE PRINCIPLES AND METHODS OF TOXICOLOGICAL ASSESSMENT OF VOLATILE SUBSTANCES RELEASED BY SYNTHETIC POLYMERS
AUTHOR/AFFILIATION TRAKHTENBERG IM,NONE;BARTENEV VD,NONE;SAVITSKII IV,NONE;BALASHOV VE,NONE;
ORIGIN NONE,VOL 33 PP.109-112;
DATE 1968, JANUARY
DESCRIPTORS ***** PVC;
HELD TERMS HYGIENE & SANITATION;PVC FLOORS;
REVIEW YEAR 1990

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ITEM 182
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 183

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 184

ACCESSION NUMBER 1276
FILE LOCATION GEN
DOCUMENT TYPE STANDARDS
TITLE OR SUBJECT WEICHMACHERHALTIGE HOCHPOLYMERE (POSITIVE LIST M.GERMANY)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,NONE;
DATE 1974
ABSTRACT POSITIVE LIST OF ACCEPTABLE (FOR FOOD AND DRUG APPLICATIONS) ADDITIVES FOR FLEXIBLE AND RIGID PVC AND COPOLYMERS.
DESCRIPTORS ***** PVC;FOOD ADDITIVE;FDA;
REVIEW YEAR 1990

ITEM 185

ACCESSION NUMBER 1260
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT ENCRUSTATION OF CATHETER MATERIALS IN VITRO
AUTHOR/AFFILIATION SRINIVASAN V,UNIV OF ILLINOIS;CLARK SS,NONE;
ORIGIN NONE,VOL 108,PP.473;
DATE 1972, SEPTEMBER
ABSTRACT ENCRUSTATION WAS SIGNFICANTLY LESS IN CATHETERS MADE OF POLYVINYLCHLORIDE AND SILICONE RUBBER MATERIALS AND MORE IN LATEX AND TEFLON-COATED LATEX MATERIALS.

BFG52757

DESCRIPTORS ***** PVC;IN VITRO;SILICONE;TEFLON;LATEX;
 HELD TERMS ENCRUSTATION;CATETERS;
 REVIEW YEAR 1990

ITEM 166

ACCESSION NUMBER 1256
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT THE EFFECTS OF STERILISING PROCESSES ON PLASTICS
 AUTHOR/AFFILIATION PLESTER DM,ICJ
 ORIGIN NONE,VOL 5 PP.443-447;
 DATE 1970, SEPTEMBER
 DESCRIPTORS ***** PVC;PLASTICS;OLEFINS;STIRENE;SILICONE;RUBBER;FORMALDEHYDE;RESINS; FLUOROCARBONS;
 HELD TERMS STERILIZATION;BIO-MEDICAL ENGINEERING;
 REVIEW YEAR 1990

ITEM 167

ACCESSION NUMBER 1257
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT HYGIENIC ASSESSMENT OF POLYVINYL CHLORIDE FLOORING FOR PRESCHOOL INSTITUTIONS
 AUTHOR/AFFILIATION PLUZHNIKOVA ZA,NONE;RUZNICHIEVA IN,NONE;
 ORIGIN NONE,VOL 31 PP.50-51;
 DATE 1968, JULY
 DESCRIPTORS ***** PVC;
 HELD TERMS PVC TILES;FLOORING;HYGIENE;
 REVIEW YEAR 1990

ITEM 168

ACCESSION NUMBER 1256
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT POLYVINYL SPONGE IMPLANTS AND MALIGNANCY
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN NONE,VOL 2 PP.653;
 DATE 1962, SEPTEMBER 29
 DESCRIPTORS ***** PVC;CANCER;
 HELD TERMS IMPLANTS;PVC SPONGE; THE LANCET;
 REVIEW YEAR 1990

ITEM 169

ACCESSION NUMBER 1255
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT POSSIBLE CARCINOGENICITY OF PLASTIC SPONGES
 AUTHOR/AFFILIATION NONE,NONE;

20898070

ORIGIN BRITISH MEDICAL JOURNAL;PILLOW-1962
DATE 1962, DECEMBER 15
DESCRIPTORS ***** PVC;CANCER;
HELD TERMS IMPLANTS;PVC SPONGES;
REVIEW YEAR 1990

ITEM 190

ACCESSION NUMBER 1254
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT SARCOMAS AT THE SITE OF IMPLANTATION OF A POLYVINYL PLASTIC SPONGE: INCIDENCE REDUCED BY USE OF THIN IMPLANTS
AUTHOR/AFFILIATION ROE FJC,NONE;DUKES CE,NONE;MITCHLEY BCY,NONE;
ORIGIN BIOCHEMICAL PHARMACOLOGY,VOL 16 PP.647-650;
DATE 1967
DESCRIPTORS ***** PVC;CANCER;SARCOMAS;RATS;
HELD TERMS IMPLANTS;PVC SPONGES;
REVIEW YEAR 1990

ITEM 191

ACCESSION NUMBER 1252
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT THE INFLUENCE OF POLYVINYL CHLORIDE (PVC) TUBING ON THE ISOLATED PERFUSED RAT'S HEART
AUTHOR/AFFILIATION MEYLER FL,NONE;WILLEBRANDS AR,NONE;DURRER D,NONE;
ORIGIN NONE,VOL 8 PP.44-46;
DATE 1960, JANUARY
ABSTRACT PERFUSION OF THE ISOLATED RAT'S HEART THROUGH CERTAIN TYPES OF POLYVINYL CHLORIDE TUBING RESULTS IN A DETERIORATION OF CARDIAC PERFORMANCE. SINCE PLASTICS ARE COMMONLY USED IN HEART-LUNG MACHINES AND TRANSFUSION-SETS,THIS OBSERVATION MAY BE OF SOME IMPORTANCE.
DESCRIPTORS ***** PVC;PLASTICIZER;HEART;EFFECTS;RATS;IN VITRO;
HELD TERMS PVC TUBES;PERFUSION;CIRCULATION RESEARCH;
REVIEW YEAR 1990

ITEM 192

ACCESSION NUMBER 1251
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT VINYL PLASTICS :THEIR DERMATOLOGICAL AND CHEMICAL ASPECTS
AUTHOR/AFFILIATION MORRIS GE,NONE;
ORIGIN ARCHIVES OF INDUSTRIAL HYGIENE & OCCUPATIONAL MEDICINE,VOL 8 PP.535-539;
DATE 1953
DESCRIPTORS ***** PVC;SKIN;EFFECTS;HUMAN;
HELD TERMS DERMATOLOGY;
REVIEW YEAR 1990

BE652759

20898071

ITEM 193

ACCESSION NUMBER 1250
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT PLASTICIZERS IN PVC AND THE OCCURENCE OF HEPATITIS IN A HAEMODIALYSIS UNIT
AUTHOR/AFFILIATION NEERGAARD J,NONE;NIELSEN,NONE;CHRISTENSEN DH,NONE;NIELSEN OF,NONE;
ORIGIN NONE,VOL 5 PP.141-145;
DATE 1971
ABSTRACT IN A FOUR-YEAR PERIOD THREE ISOLATED CASES OF HEPATITIS WERE OBSERVED WITHIN A PERIOD OF 2 MONTHS IN A HAEMODIALYSIS UNIT. THE CASES OCCURRED IN 3 PATIENTS DURING TESTING OF NEW HAEMODIALYSIS EQUIPMENT. LIVER BIOPSY IN 2 PATIENTS SHOWED NON-SPECIFIC HEPATITIS AND CHANGES AS IN "VIRAL HEPATITIS", RESPECTIVELY. FROM THE TESTED BLOOD TUBINGS, MANUFACTURED FROM POLYVINYLCHLORIDE (PVC), DIAETHYLPHTHALATE WAS WASHED OUT IN AN AMOUNT OF 10-20 MG PER LITRE AQUEOUS PERFUSATE. FROM THE TUBINGS NORMALLY USED IN THE DEPARTMENT THIS COMPOUND WAS NOT RELEASED ON PERFUSION, AND THE SYMPTOMS DISAPPEARED RAPIDLY WHEN TREATMENT WITH THE USE OF THESE TUBINGS WAS RESUMED.

DESCRIPTORS ***** PVC;PLASTICIZERS;HEPATITIS;HUMAN;EFFECTS;
REVIEW YEAR 1990

ITEM 194

ACCESSION NUMBER 1249
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT CONTACT DERMATITIS FROM PLASTICS CONTAINING TRI-ARYL PHOSPHATES
AUTHOR/AFFILIATION PEGUM JS,NONE;
ORIGIN BRITISH J OF DERMATOLOGY,VOL 78 PP.626-631;
DATE 1966
ABSTRACT A HOUSEWIFE WITH ECZEMA REACTED TO THE PVC STRAPPING USED IN PATCH TESTING. THE REACTION WAS THE RESULT OF SENSITIVITY TO TRITOLYL PHOSPHATE (TTP). SHE ALSO REACTED TO TRIPHENYL PHOSPHATE (TPP) WHICH IS USED IN CELLULOSE ACETATE PRODUCTS. IN HER ENVIRONMENT SHE REACTED TO PVC COVERED FURNITURE, FLOOR TILES AND TO SPECTACLE FRAMES MADE OF ACETATE, ALSO TO PLASTIC KITCHEN UTENSILS.

DESCRIPTORS ***** PVC;CONTACT DERMATITIS;HUMAN;EFFECTS;
HELD TERMS TRI-ARYL PHOSPHATES;
REVIEW YEAR 1990

ITEM 195

ACCESSION NUMBER 1248
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT POLYVINYL CHLORIDE T-TUBES
AUTHOR/AFFILIATION LAWSON DR,NONE;
ORIGIN BRITISH MEDICAL JOURNAL,VOL 4 PP.112;
DATE 1973, OCTOBER 13
ABSTRACT PRESENT PVC TUBES NOT SUITABLE FOR USE AS T-TUBE.
DESCRIPTORS ***** PVC;HUMAN;EFFECTS;PLASTICIZER;
HELD TERMS PVC T-TUBES;

BFG52760

20898072

REVIEW YEAR 1990

ITEM 196

ACCESSION NUMBER 1247
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT IRRADIATED PVC PLASTIC AND GAS STERILIZATION IN THE PRODUCTION OF TRACHEAL STENOSIS FOLLOWING TRACHEOSTOMY
AUTHOR/AFFILIATION LIPTON B,NONE;GUTIERREZ R,NONE;BLAUGRAND S,NONE;LITNAK RS,NONE; RENDELL-BAKER L,NONE;
ORIGIN NONE,CIK 59 BI,4 00,578-586;
DATE 1971, JULY-AUGUST
ABSTRACT IN THE REPORTING OF DAMAGE TO LARYNGEAL AND TRACHEAL TISSUE FOLLOWING PROLONGED INTUBATION, TOO LITTLE ATTENTION HAS BEEN PAID TO THE COMPOSITION OF THE TUBE (FOR AS NOTED EARLIER, RUBBER TUBES ALSO MAY NOT BE FREE FROM HAZARD) AND THE METHOD OF STERILIZATION USED. THE MEDICAL PROFESSION MUST BE MADE AWARE OF THE POTENTIAL DANGER OF TISSUE DAMAGE FROM PROLONGED CONTACT WITH NEW MATERIALS UNDERGOING COMPOSITION OF THE TUBE (FOR AS NOTED EARLIER, RUBBER TUBES ALSO +NEW MODES OF STERILIZATION.
DESCRIPTORS ***** PVC;HUMAN;EFFECTS; TRACHEA;
HELD TERMS TRACHEOSTOMY;STERILIZATION;TRACHEAL STENOSIS;ANESTHESIA AND ANALGESIA;
REVIEW YEAR 1990

ITEM 197

ACCESSION NUMBER 1246
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT WHAT'S IN PVC
AUTHOR/AFFILIATION LITTLE K,NONE;
ORIGIN NONE,VOL 2 PP.351-352;
DATE 1968
DESCRIPTORS ***** PVC;
HELD TERMS MEDICINE;THE LANCET;
REVIEW YEAR 1990

ITEM 198

ACCESSION NUMBER 1245
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT TOXICITY OF PLASTICS USED IN MEDICAL PRACTICE I: INVESTIGATION OF TISSUE RESPONSE IN ANIMALS BY CERTAIN UNIT PACKAGED POLYVINYL CHLORIDE ADMINISTRATION DEVICES
AUTHOR/AFFILIATION LAWRENCE WH,UNIV OF HOUSTON;MITCHELL JL,NONE; GUESS WL,NONE;AUTIAN J,NONE;
ORIGIN NONE,VOL 52 NO.10 PP.958-963;
DATE 1963
ABSTRACT THE RESULTS OF THE STUDY REVEALED THAT UNDER THE EXPERIMENTAL CONDITIONS USED IN THIS STUDY A NUMBER OF THE TUBINGS WILL PRODUCE TISSUE RESPONSE WHILE OTHERS WILL NOT.
DESCRIPTORS ***** PVC;EXTRACTION;ANALYSIS;RABBIT;EFFECTS;
HELD TERMS PVC TUBES;IMPLANTATION;J OF PHARMACEUTICAL SCIENCES;
REVIEW YEAR 1990

BFG52761

20898073

BFG52762

20898073

PRINTOUT FOR GARY JONES

ITEM 199

1244
ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

DESCRIPTORS

PROPERLY DESIGNED AND FABRICATED PLASTIC SYSTEMS OFFER A NUMBER OF ADVANTAGES FOR PACKAGING PARENTERAL SOLUTIONS. A PLASTIC POSSESSING A NUMBER OF ESSENTIAL CHARACTERISTICS FOR THIS APPLICATION IS POLYVINYL CHLORIDE. ITS CHEMICAL, PHYSICAL, AND BIOLOGICAL PROPERTIES ARE REVIEWED AND ITS UTILIZATION FOR PACKAGING HUMAN BLOOD COMPONENTS ARE DESCRIBED.
PVC:BLOOD;
BLOOD BAGS;PARENTERALS; BULL.PARENTERAL DRUG ASSOCIATION; BAXTER LABS;
1990
REVIEW YEAR

ITEM 200

1243
ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
DESCRIPTORS *****
FLOORS;HYGIENE/AND SANITATION;HYGIENE;
1990
REVIEW YEAR

KALMANOVICH FL,NONE;
NONE,VOL 33 PP.27-280;
1968, FEBRUARY
PVC;
FLOORS;HYGIENE/AND SANITATION;HYGIENE;
1990
REVIEW YEAR

ITEM 201

1242
ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

ACROPATHY OF THE EXTREMITIES ASSOCIATED WITH VC POLYMERIZATION--A NEW OCCUPATIONAL DISEASE
KOVAC A,NONE;KURAJICA L,NONE;JURIC-RUZIC D,NONE;PARAC B,NONE;
NONE,VOL 91 NO.5 PP.5-17;
1969
VCM;POLYMERIZATION;ACROOSTEOLYSIS;
ACROPATHY;LIJ.VJES;
1990
REVIEW YEAR

ITEM 202

1240
ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

TISSUE REACTIONS TO ORGANOIN-STABILIZED POLYVINYL CHLORIDE (PVC) CATHETERS

PRINTOUT FOR GARY JONES
 ORDER NUMBER 060827-135259-WIZ -001-001
 PAGE 73 SET 4 WITH 385 OF 388 ITEMS

AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

GUESS WL,NONE;STETSON JB,NONE;
 JAMA,VOL 204 NO:7 PP:116-122;
 1968, MAY 13
 THERE HAS BEEN AN INCREASING INCIDENCE OF GLOTTIC IMPLANT REACTIONS. A SEARCH OF THE LITERATURE FOR A CAUSE DISCLOSED THAT LEACHABLE SUBSTANCE IN POLYVINYL CHLORIDE (PVC) COULD CAUSE TISSUE INJURY. A STUDY REVEALED THAT PVC SETTERS CUT FROM SOME CATHETERS INTENDED FOR ENDOTRACHEAL USE CAUSED TOXIC REACTIONS WHEN IMPLANTED IN RABBIT MUSCLE. CELL CULTURE STUDIES WERE CORROBORATIVE. THE TOXIC SUBSTANCE WAS IDENTIFIED AS AN ORGANOTIN COMPOUND. THE INVESTIGATORS CONCLUDED THAT PLASTIC DEVICES FOR USE IN HUMAN PATIENTS SHOULD NOT CONTAIN ORGANOTIN STABILIZERS, FOR ANY OTHER LEACHABLE TOXIC AGENT, AND THAT STANDARDS FOR PLASTIC DEVICES USED IN MEDICAL PRACTICE SHOULD BE ESTABLISHED.

DESCRIPTORS *****
 HELD TERMS
 REVIEW YEAR

PVC;ORGANOTIN STABILIZERS;RABBITS;
 CATHETERS;IMPLANTS;
 1990

ITEM 203

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT
 AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

1239
 GEN
 PUBLICATION
 CONTACT DERMATITIS DUE TO TABLE CLOTH COVER OF VINYL PLASTIC FABRIC
 HITSCHMANN DB,NONE;

ORIGIN
 DATE
 ABSTRACT

NONE,VOL 61 PP:679-681;
 1950

DESCRIPTORS *****
 HELD TERMS
 REVIEW YEAR

THIS IS A REPORT ON ALLERGIC CONTACT DERMATITIS FROM PLASTIC TABLE CLOTH COVERS OBSERVED ON 2 PATIENTS. NO DESCRIPTION OF ANY SIMILAR CASE WAS FOUND IN THE LITERATURE.
 PVC;DERMATITIS;HUMAN;EFFECTS;
 TABLE CLOTH;FLEXIBLE;ARCHIVES OF DERMATOLOGY AND SYPHILOLOGY;
 1990

ITEM 204

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT
 AUTHOR/AFFILIATION
 ORIGIN
 DATE
 DESCRIPTORS *****
 HELD TERMS
 REVIEW YEAR

1237
 GEN
 JOURNAL
 USE OF SUBCUTANEOUS PV IMPLANTS FOR THE STUDY OF EXPERIMENTAL ATHEROSCLEROSIS
 JACOTOT PB,NONE;BEAUMONT JL,NONE;
 NONE,VOL 9 PP:28-29;
 1967
 PVC;RATS;RABBITS;SUBCUTANEOUS;
 IMPLANTS;ATHEROSCLEROSIS;REVUE L'ATHEROSCLEROSE;
 1990

ITEM 205

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT

1236
 GEN
 JOURNAL
 MIGRATION OF A PHTHALATE ESTER PLASTICIZER FROM POLYVINYL CHLORIDE BLOOD BAGS INTO STORED HUMAN BLOOD AND ITS LOCALIZATION IN HUMAN TISSUES

BFG52763

AUTHOR/AFFILIATION JAEGER RJ,NONE;RUBIN RJ,NONE;
ORIGIN NONE,VOL 287 NO.22 PP.1114-1118;
DATE 1972, NOVEMBER 30
ABSTRACT

A PLASTICIZER, DI-2-ETHYLHEXYL PHTHALATE, WAS FOUND TO BE EXTRACTED FROM POLYVINYL CHLORIDE PLASTIC BLOOD BAGS BY BOTH HUMAN AND DOG BLOOD STORED AT -20 DEGREES C AT A RATE OF 6.25 PLUS OR MINUS 0.03 MG PER 100 ML PER DAY. PLASTICIZER WAS FOUND IN BOTH THE LIPID-CONTAINING AND LIPID-FREE FRACTIONS OF PLASMA, WHEREAS RED CELLS CONTAINED ONLY MINOR AMOUNTS. SEVEN OF 12 LUNG-TISSUE SAMPLES TAKEN AT AUTOPSY FROM PATIENTS WHO HAD RECEIVED TRANSFUSIONS OF STORED BLOOD CONTAINED DETECTABLE AMOUNTS OF PLASTICIZER. ONE PATIENT, AFTER OPEN-HEART SURGERY, EXCRETED A URINARY METABOLITE OF THE PLASTICIZER IN EXCESS OF THE AMOUNT CALCULATED TO HAVE BEEN RECEIVED IN THE TRANSFUSED BLOOD. THE ADDITIONAL METABOLITE POSSIBLY CAME FROM PLASTICIZER EXTRACTED FROM THE POLYVINYL CHLORIDE TUBING OF THE CARDIOPULMONARY UNIT. ALTHOUGH THE TOXICOLOGIC IMPLICATIONS OF THESE OBSERVATIONS ARE NOT CURRENTLY KNOWN, IT IS SUGGESTED THAT PLASTIC FORMULATIONS THAT DO NOT CONTRIBUTE ANY EXTRACTABLE MATERIALS TO BLOOD OR ITS FRACTIONS BE DEVELOPED.

DESCRIPTORS ***** PVC;MIGRATION;BLOOD;HUMAN;EFFECTS;DEPOSITION; DEHP;
HELD TERMS BLOOD BAGS;NEW ENGLAND J OF MEDICINE;JOHNS HOPKINS UNIV;
REVIEW YEAR 1990

ITEM 206

ACCESSION NUMBER 1235
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT PLASTICIZERS FROM PVC
AUTHOR/AFFILIATION JAEGER RJ,NONE;RUBIN RJ,NONE;
ORIGIN NONE,VOL 2 PP.778;
DATE 1970, OCTOBER 10
DESCRIPTORS ***** PVC;PLASTICIZERS;DEHP;BLOOD;MIGRATION;
HELD TERMS THE LANCET;JOHN HOPKINS UNIV;BLOOD BAGS;PHTHALATE ESTERS;
REVIEW YEAR 1990

ITEM 207

ACCESSION NUMBER 1234
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT PLASTICIZERS IN HUMAN TISSUES
AUTHOR/AFFILIATION NAIR PP,NONE;RUBIN RJ,NONE;
ORIGIN NONE,VOL 288 NO.17 PP.915-916;
DATE 1973, APRIL 26
ABSTRACT HOWEVER, QUALITATIVELY WE FIND THE SAME FREQUENCY OF APPEARANCE OF DEHP IN THE TISSUES OF NONTRANSFUSED PERSONS.
DESCRIPTORS ***** PVC;PLASTICIZER;MIGRATION;BLOOD;HUMAN;EFFECTS;INTRAVENOUS;
HELD TERMS TRANSFUSION;NEW ENGLAND J OF MEDICINE;JOHN HOPKINS UNIV;MOUNT SINAI HOSPITAL;
REVIEW YEAR 1990

ITEM 208

ACCESSION NUMBER 1231
FILE LOCATION GEN

BFG52764

PRINTOUT FOR GARY JONES
ORDER NUMBER 060827-135259-WIZ -001-001
PAGE 75 SET 4 WITH 385 OF 385 ITEMS

DOCUMENT TYPE
TITLE OR SUBJECT

GOVERNMENT CORR
BFG'S SUBMISSION OF HISTORICAL DATA AND ANALYTICAL TESTS RELATIVE TO FDA OF RVCM'S OF 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 209

ACCESSION NUMBER

1230

FILE LOCATION

GEN

DOCUMENT TYPE

STANDARDS

TITLE OR SUBJECT

PRIOR-SANCTIONED POLYVINYL CHLORIDE RESIN :NOTICE OF PROPOSED RULE MAKING

AUTHOR/AFFILIATION

NONE,NONE;

ORIGIN

FEDERAL REGISTER,VOL 38 NO.95 PP.12931;

DATE

1973, MAY 17

ABSTRACT

PROPOSED RULE TO AMEND PART 121 BY ADDING NEW SECTION 121.2009 POLYVINYL CHLORIDE RESINS.

DESCRIPTORS *****

PVC;FDA;

REVIEW YEAR

1990

ITEM 210

ACCESSION NUMBER

1229

FILE LOCATION

GEN

DOCUMENT TYPE

STANDARDS

TITLE OR SUBJECT

PRIOR-SANCTIONED POLYVINYL CHLORIDE RESIN :EXTENSION OF TIME FOR FILING COMMENTS (PROPOSED RULE)

AUTHOR/AFFILIATION

NONE,NONE;

ORIGIN

FEDERAL REGISTER,VOL 38 NO.134 PP.18684;

DATE

1973, JULY 13

DESCRIPTORS *****

PVC;FDA;

REVIEW YEAR

1990

ITEM 211

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 212

ACCESSION NUMBER

1227

BFG52765

include

omit

20898077

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 SH;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

ITEM 213

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 214

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 215

ACCESSION NUMBER 1224
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT POLYVINYL CHLORIDE T-TUBES
AUTHOR/AFFILIATION BOUCHIER-HAYES DJ;NONE;
ORIGIN BRITISH MEDICAL JOURNAL,VOL 3 PP.543;
DATE 1973, SEPTEMBER 8
ABSTRACT T-TUBE IN PATIENT BECAME RIGID.
DESCRIPTORS ***** PVC;HUMAN;EFFECTS;
HELD TERMS PVC T-TUBES;IMPLANT;
REVIEW YEAR 1990

ITEM 216

BFG52766

include

PRINTOUT FOR GARY JONES
ORDER NUMBER 860827-135259-WIZ -001-001
PAGE 77 SET 4 WITH 385 OF 385 ITEMS

20898078

ACCESSION NUMBER 1223
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT HISTOLOGICAL AND HISTOCHEMICAL CHANGES OBSERVED IN LIVER OF EXPERIMENTAL RATS WITH CHLORIDE PNEUMOCONIOSIS
AUTHOR/AFFILIATION CYLMIK B,NONE;
ORIGIN NONE,VOL 17 PP.93-111;
DATE 1973
DESCRIPTORS ***** PVC;LIVER;
HELD TERMS PNEUMOCONIOSIS;
REVIEW YEAR 1990

ITEM 217

ACCESSION NUMBER 1222
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT WHAT'S IN PVC
AUTHOR/AFFILIATION COWPER SG,NONE;
ORIGIN NONE,VOL 2 PP.221;
DATE 1968, JULY 27
ABSTRACT PVC TUBINT
DESCRIPTORS ***** PVC;MIGRATION;ACUTE;
HELD TERMS SHISTOSOMA MANSONI;LETHALITY;WORMS;THE LANCET;
REVIEW YEAR 1990

ITEM 218

ACCESSION NUMBER 1221
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT HAZARDS FROM PLASTICS STERILIZED BY ETHYLENE OXIDE
AUTHOR/AFFILIATION CUNLIFFE AC,KING'S COLLEGE;WESLEY F,SAME;
ORIGIN BRITISH MEDICAL JOURNAL,VOL 2 PP.575-576;
DATE 1967, MAY 27
ABSTRACT PVC ABSORBS ETHYLENE OXIDE WHICH CAN THEN MIGRATE.
DESCRIPTORS ***** PVC;MIGRATION;
HELD TERMS STERILIZATION; ETHYLENE OXIDE;
REVIEW YEAR 1990

ITEM 219

ACCESSION NUMBER 1220
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT PARTICULATE MATTER IN POLYVINYL CHLORIDE INTRAVENOUS BAGS
AUTHOR/AFFILIATION DARBY TK,NONE;AUSTIN RK,NONE;
ORIGIN NONE,VOL 290 NO.20 PP.879;
DATE 1974, MARCH 7
ABSTRACT THE SOURCE OF HUMAN EXPOSURE TO PLASTICIZER IS WITHIN THE ENVIRONMENT AS DEMONSTRATED IN

BFG52767

include

include

ANALYSIS OF AUTOPSY TISSUES THAT REVEALED NO DIFFERENCE IN DEATH TISSUE PREVALENCE BETWEEN POPULATIONS OF NON-TRANSFUSED AND HEAVILY TRANSFUSED PATIENTS
PVC:DEHP;PLASTICIZERS:BLOOD;GASTROINTESTINAL;PHTHALATES;INTRAUTERINE
BLOOD BAGS;PHTHALATE ESTER;NEW ENGLAND J OF MEDICINE; 1990

ITEM 220

DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

1990

ACCESSION NUMBER 1219

FILE LOCATION GEN

DOCUMENT TYPE PUBLICATION

TITLE OR SUBJECT TOXICITY OF TISSUE CULTURE MEDIA EXPOSED TO POLYVINYL CHLORIDE PLASTIC

AUTHOR/AFFILIATION DE HAAN RL,NONE;

ORIGIN NONE,VOL 231 PP.65-66;

DATE 1971, MAY 19

ABSTRACT PBC TUBING LEACHES TOXICANTS WHICH ARE TOXIC TO TISSUE CULTURES.

DESCRIPTORS *****

HELD TERMS PVC:TUBING;NATURAL;NEW BIOLOGY;CARNEGIE INSTITUTION OF WASHINGTON;

REVIEW YEAR 1990

ITEM 221

ACCESSION NUMBER 1218

FILE LOCATION GEN

DOCUMENT TYPE JOURNAL

TITLE OR SUBJECT AN ADVERSE EFFECT OF POLYVINYLCHLORIDE TUBING USED IN EXTRACORPOREAL CIRCULATION

AUTHOR/AFFILIATION DUKE HN,NONE;VANE JR,NONE;

ORIGIN NONE,VOL 2 PP.21-23;

DATE 1968, JULY 6

ABSTRACT THE PULMONARY BLOOD VESSELS OF ISOLATED PERFUSED CATS' LUNGS DO NOT RESPOND TO HYPOXIA WHEN THE

DESCRIPTORS *****

HELD TERMS PVC:CATS;MIGRATION;BLOOD;EFFECTS;

REVIEW YEAR 1990

ITEM 222

ACCESSION NUMBER 1217

FILE LOCATION GEN

DOCUMENT TYPE PUBLICATION

TITLE OR SUBJECT A CONTRIBUTION TO THE MIEGENIC EVALUATION OF PVC FLOOR TILES FOR APARTMENTS

AUTHOR/AFFILIATION D'YACHUK IA,NONE;

ORIGIN NONE,VOL 35 PP.424-427;

DATE 1970

ABSTRACT FLOORS;HYGIENE; PVC TILES;HYGIENE AND SANITATION;KORNAI DISTRICT HOSPITAL (RUSSIA);

DESCRIPTORS *****

HELD TERMS PVC;

REVIEW YEAR 1990

ITEM 223

BFG527198

20898079

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

1216
GEN
JOURNAL
THE INFLUENCE OF POLYVINYL CHLORIDE STIMULATION ON THE PULMONARY VASCULAR RESPONSE TO HYPOXIA
DUKE HN,NONE;
NONE,VOL 38 P.24P;
1970
THE PRESENT EXPERIMENTS DEMONSTRATE THAT ADDITION OF SALINE, OR PLASMA IN WHICH PVC TUBING HAS BEEN INCUBATED CAN INHIBIT, OR SUPPRESS THE PULMONARY VASCULAR RESPONSE TO ANOXIA IN ISOLATED PERFUSED CAT LUNG PREPARATIONS.

DESCRIPTORS *****
HELP TERMS
REVIEW YEAR

PVC;MIGRATION;VASCULAR;
PVC TUBING;FLEXIBLE;VASCULAR RESISTANCE;CIRCULATION; CLINICAL SCIENCE;
1990

ITEM 224

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
DESCRIPTORS *****
HELP TERMS
KWIC INDEX NUMBER
REVIEW YEAR

1206
GEN
COMPANY CORR
FDA STATUS OF GEON RESINS
NONE,NONE;
BFG,TO HOOKER CHEMICAL;
1968, NOVEMBER 13
FDA ACCEPTANCE;RESIN;GEONS;
GEON 101;GEON 103;GEON 104;
00388CORR
1990

ITEM 225

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
DESCRIPTORS *****
KWIC INDEX NUMBER
REVIEW YEAR

1196
GEN
JOURNAL
ANGIOSARCOMA OF THE LIVER IN VINYL CHLORIDE/ POLYVINYL CHLORIDE WORKERS
NONE,NONE;
J OF OCCUPATIONAL MEDICINE ,VOL 16 NO.12;
1974
ANGIOSARCOMA; LIVER; VCM; PVC;
00377PUBL
1990

ITEM 226

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE

1187
GEN
PAPER
CYTOGENETIC STUDIES OF BONE MARROW CELLS FROM RATS EXPOSED TO VINYL CHLORIDE
JOHNSTON RV,DOW CHEMICAL CO;MENSIK DJ,SAME;PINKERTON HN,SAME; WHORTON EB,UNIV OF TEXAS;
DOW CHEMICAL CO,FOR MCA
1975

20898080

692753769
B

ABSTRACT

STUDIES BY THE BIOMEDICAL AND COMPARATIVE TOXICOLOGY RESEARCH LABORATORY OF THE DON 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 *****
HELD TERMS
KWIC INDEX NUMBER
REVIEW YEAR

MUTAGENICITY; VINYL CHLORIDE MONOMER; BONE MARROW; CHROMOSOMAL ABERRATION; INHALATION; RATS;
CYTOGENETIC EFFECTS; CHROMOSOMAL ABNORMALITIES
00367PAPE
1990

ITEM 227

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

1182
GEN
JOURNAL
CARCINOGENICITY BIOASSAYS OF VINYL CHLORIDE: 1. RESEARCH PLAN AND EARLY RESULTS
LEFEMINE G, NONE; MALTONI C, NONE;
ENVIRONMENTAL RESEARCH, VOL 7 PP. 387-405;
1974

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 *****
KWIC INDEX NUMBER
REVIEW YEAR

VINYL CHLORIDE; CARCINOGENICITY; INHALATION; MICE; RATS;
00362PUBL
1990

ITEM 228

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

1181
GEN
JOURNAL
VINYL CHLORIDE INDUCED LIVER DISEASE
THOMAS LB, NCI; POPPER H, NONE; BERK PD, NONE; SELIKOFF I, NONE; FALK H, NONE;
NONE, VOL 292 NO. 1;
1975,

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 IDIOPATHIC PORTAL HYPERTENSION (BANTI'S SYNDROME) SUGGESTS THAT THE LATTER SYNDROME AT TIMES RESULTS FROM UNKNOWN TOXIC, POSSIBLY ENVIRONMENTAL, CHEMICALS.

BFG52770

20898082

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

ITEM 229

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 AD, HARVARD UNIV; CLINTON M, SAME; BOGGS J, SAME; DRINKER P, SAME;
ORIGIN HARVARD UNIV
DATE 1947
ABSTRACT RATS FED A DIET CONTAINING 5% VINYL AND VINYLIDINE CHLORIDE COPOLYMER FOR TWO YEARS SHOWED NO TOXIC EFFECTS. TWO DOGS WERE FED A DIET CONTAINING 5% VINYL AND VINYLIDINE CHLORIDE COPOLYMER FOR TWO YEARS WITHOUT EVIDENCE OF TOXIC EFFECTS.

DESCRIPTORS ***** PVC; VCM; CHRONIC; CARCINOGENICITY; RATS; DOGS; ORAL;
HELD TERMS DIET; VINYLIDINE CHLORIDE;
KWIC INDEX NUMBER 00353TOXS
REVIEW YEAR 1995

ITEM 230

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 231

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

BFG52771

20898082

ITEM 232

ACCESSION NUMBER 1121
FILE LOCATION GEN
DOCUMENT TYPE TOXICITY STUDY
TITLE OR SUBJECT A STUDY OF THE TOXICITY OF SEON 202 RESIN
AUTHOR/AFFILIATION SEELER AD,HARVARD UNIV;CLINTON M,SAME;BOGGS J,SAME; DRUCKER P,SAME;
ORIGIN HARVARD UNIV,FOR BFG;
DATE 1947
ABSTRACT DIETARY ADMINISTRATION OF SEON 202 RESIN AT 5% FOR TWO YEARS DID NOT PRODUCE ANY CONFOUND
RELATED EFFECTS IN RATS OR DOGS.
DESCRIPTORS *****
HELD TERMS VCN;VOC;PVC;EFFECTS;DIET;RATS;DOGS;CHRONIC;
KWIC INDEX NUMBER GEON 202;
REVIEW YEAR 0029870X5
1992

ITEM 233

ACCESSION NUMBER 971
FILE LOCATION GEN
DOCUMENT TYPE COMPANY CORR
TITLE OR SUBJECT UTAH,THE UNIVERSITY OF COMBUSTION STUDY,PART 1:1973 74PROGRESS
AUTHOR/AFFILIATION EINHORN,NONE;
ORIGIN BFG
DATE 1974
DESCRIPTORS *****
KWIC INDEX NUMBER 00099C0R
REVIEW YEAR 1990

ITEM 234

ACCESSION NUMBER 968
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT FURTHER STUDIES OF POLYMERS AS CARCINOGENIC AGENTS IN ANIMALS
AUTHOR/AFFILIATION OPPENHEIMER BS,NONE;OPPENHEIMER ET,NONE;DANISHEFSKY I,NONE; STOUT AP,NONE;FEIRICH FR,NONE;
ORIGIN CANCER RESEARCH,VOL 15 PP.333-340;
DATE 1955,
DESCRIPTORS *****
HELD TERMS RATS;MICE;CANCER;PVC;
KWIC INDEX NUMBER IMPLANTS;
REVIEW YEAR 00095PUBL
1990

ITEM 235

ACCESSION NUMBER 953
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT A TOXICOLOGICAL INVESTIGATION OF SOME ACUTE,SHORT-TERM,AND CHRONIC EFFECTS OF ADMINISTERING

BFG52772

20898083

include

20898081

20898084

PRINTOUT FOR GARY JONES
 ORDER NUMBER 860827-135259-WIZ -001-001
 PAGE 63 SET 4 WITH 365 OF 368 ITEMS

DI-2-ETHYLHEXYL PHTHALATE(DEPH)AND OTHER PHTHALATE ESTERS
 AUTHOR/AFFILIATION LAWRENCE MH,NONE;MALIK H,NONE;TURNER JE,NONE;SIEGH AN,NONE;JONES J
 ORIGIN ENVIRONMENTAL RESEARCH,NO.9 PP.1-11;
 DATE 1975,
 DESCRIPTORS ***** TOXICITY DATA; LDS0; PLASTICIZERS; PVC; DIOCTYL PHTHALATE; DI-ETHYLHEXYL PHTHALATE; DEPH;
 HELD TERMS UNIV OF TENNESSEE; BISMETHOXYETHYL PHTHALATE;ETHYL CARBOBUTOXYETHYL PHTHALATE;
 BUTYL CARBOBUTOXYETHYL PHTHALATE;
 KWIC INDEX NUMBER 00075PUBL
 REVIEW YEAR 1990

ITEM 236

ACCESSION NUMBER 948
 FILE LOCATION GEN
 DOCUMENT TYPE COMPANY CORR
 TITLE OR SUBJECT TOXICOLOGICAL INVESTIGATION OF VAZO 33 VINYL POLYMERIZATION CATALYST, 2,2'-AZOBIS(2,
 4-DIMETHYL-4-METHOXYVALERONITRILE)
 AUTHOR/AFFILIATION FLETCHER CH,DUPONT;
 ORIGIN DUPONT,
 DATE 1974, FEBRUARY 28
 DESCRIPTORS ***** TOXICITY DATA;EFFECTS;DOSE;PVC;
 HELD TERMS VAZO 33;AZOBIS-DIMETHYL-METHOXYVALERONITRILE;
 KWIC INDEX NUMBER 00070CORR
 REVIEW YEAR 1990

ITEM 237

ACCESSION NUMBER 932
 FILE LOCATION GEN
 DOCUMENT TYPE TECHNICAL REPORT
 TITLE OR SUBJECT OCTYL TIN DATA REPORT
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN M&T CHEMICALS
 DATE 1966, APRIL 19
 ABSTRACT EXTRACTION PROCEDURE AND RESULTS. PREPARATION OF PVC SPECIMENS FOR THE MAJOR PHYSICAL TEST.
 STANDARD TEST METHOD - XIX-SCA-1. CHEMICAL DATA REQUIRED FOR EVALUATION OF FOOD PACKAGING
 MATERIALS UNDER THE FOOD ADDITIVES AMENDMENT.
 DESCRIPTORS ***** THERMOLITE-831;THERMOLITE-813;EXTRACTION TEST;FOOD ADDITIVE; VINYL RESINS; PVC;TIN COMPOUNDS;
 KWIC INDEX NUMBER 00048REPO
 REVIEW YEAR 1990

ITEM 238

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

BFG52773

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omit

omit

ABSTRACT

RATS (AR/IRE HISTAR 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 EPITHELIAL COVERING CELLS. IN A MINOR NUMBER OF RATS, A LARGE PROLIFERATION OF CARTILAGINOUS TISSUE DIAGNOSED AS OSTEODCHONDROMA 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 239

ACCESSION NUMBER 922
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT HEALTH HAZARD EVALUATION/ TOXICITY DETERMINATION
AUTHOR/AFFILIATION POLAKOFF PL, NONE,NONE;
ORIGIN NONE
DATE 1973,
DESCRIPTORS ***** PVC; HEAT-WRAPPERS ASTHMA; PYROLYSIS;
KWIC INDEX NUMBER 00036PUBL
REVIEW YEAR 1990

ITEM 240

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,DOW CHEMICAL CO;MUTCHLER JE,SAME;
ORIGIN AIHA,VOL 33 NO.1 PP.19-30;
DATE 1972, JANUARY
ABSTRACT A METHOD IS DESCRIBED FOR THE STATISTICAL CONSOLIDATION AND CORRELATION OF ENVIRONMENTAL MEASUREMENTS AND CLINICAL FINDINGS USING AS AN EXAMPLE A GROUP OF HEALTHY MALE WORKERS EXPOSED ROUTINELY TO VINYL CHLORIDE FOR PERIODS UP TO 25 YEARS. RETROSPECTIVE IN NATURE THE STUDY REVEALS SEVERAL STATISTICALLY SIGNIFICANT EFFECTS FROM CHRONIC EXPOSURES TO VINYL CHLORIDE AND TRACES OF VINYLIDENE CHLORIDE.
DESCRIPTORS ***** VINYL CHLORIDE;WORKERS;EXPOSURE; VINYLIDENE CHLORIDE;CHRONIC; EFFECTS;
REVIEW YEAR 1990

ITEM 241

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;

BFG5277A

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ORDER NUMBER 860827-135259-WIZ -001-001
PAGE 85 SET 4 WITH 388 OF 388 ITEMS

20898086

ORIGIN
DATE
ABSTRACT

NONE,VOL 19,PP:517-531
1981, JUNE
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 0.13 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 *****
HELD TERMS
REVIEW YEAR

ORAL;PVC;VCM;RATS;CARCINOGEN;DIET;
FOOD AND COSMETICS TOXICOLOGY;
1990

ITEM 242

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

887
GEN
REPORT
LIFESPAN ORAL CARCINOGENICITY STUDY OF VINYL CHLORIDE IN RATS (FINAL REPORT)
TIL HP,NONE;IMMEL HR,NONE;FERON VJ,NONE;
NONE,REPORT NO.V83.285/291099

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 *****
HELD TERMS
REVIEW YEAR

PVC;VCM;ORAL;FEEDING STUDY;RATS;CANCER;CHRONIC;EFFECTS;DIET;
DIETARY ADMINISTRATION;CIYO INSTITUTES TWO;
1990

ITEM 243

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

849
GEN
REPORT
2-PROPENOIC ACID, METHYL ESTER, POLYMER WITH CHLOROETHENE (CAS# 25035-98-7): BFG TSCA INVENTORY
SUBMISSION, FORM# 821463724, LOUISVILLE.
NONE,NONE;
BFG-CHEMICAL, TO EPA;
1978
TSCA INVENTORY SUBMISSION OF CEON 351 AND 576. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT
FILES.

DESCRIPTORS *****
REVIEW YEAR

CAS.NO.25035-98-7;TSCA INVENTORY;GEON 351;GEON 576; METHYL ACRYLATE,VINYL CHLORIDE POLYMER
1990

ITEM 244

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE

848
GEN
REPORT

BFG52775

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TITLE OR SUBJECT 2-PROPENOIC ACID, METHYL ESTER, POLYMER WITH CHLOROETHYLENE, FORM# 821463732, AVON LAKE.
AUTHOR/AFFILIATION NONE, NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 3501 AND 376. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS, NO. 25035-98-7; TSCA INVENTORY; GEON 3501; GEON 376; METHYL ACRYLATE; VINYL CHLORIDE POLYMER
REVIEW YEAR 1990

ITEM 245

ACCESSION NUMBER 759
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, 2-ETHYLBENYL ESTER, POLYMER WITH CHLOROETHYLENE AND 1,1-DICHLOROETHYLENE (CAS# 25035-95-6); BFG TSCA INVENTORY SUBMISSION, FORM# 821463732, AVON LAKE.
AUTHOR/AFFILIATION NONE, NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 450X3 AND 450X267. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS, NO. 25035-95-4; TSCA INVENTORY; GEON 450X3; GEON 450X267; 2-ETHYLBENYL ACRYLATE, VC, 1, 1-DICHLOROETHYLENE POLYMER
REVIEW YEAR 1990

ITEM 246

ACCESSION NUMBER 734
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, ETHYL ESTER, POLYMER WITH CHLOROETHYLENE AND METHYL 2-PROPENOATE (CAS# 58295-64-0); BFG TSCA INVENTORY SUBMISSION, FORM# 821463732, AVON LAKE.
AUTHOR/AFFILIATION NONE, NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 350X21. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS, NO. 58295-64-0; TSCA INVENTORY; GEON 350X21;
REVIEW YEAR 1990

ITEM 247

ACCESSION NUMBER 733
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, ETHYL ESTER, POLYMER WITH CHLOROETHYLENE AND 1,1-DICHLOROETHYLENE (CAS# 30398-86-8); BFG TSCA INVENTORY SUBMISSION, FORM# 821464499, AVON LAKE.
AUTHOR/AFFILIATION NONE, NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978

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20898088

ABSTRACT
DESCRIPTORS *****
REVIEW YEAR

TSCA INVENTORY SUBMISSION OF GEON 652; DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
CAS.NO.30398-86-6;TSCA INVENTORY;GEON 652; ETHYL ACRYLATE; VC POLYMER
1990

ITEM 248

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

732
GEN
REPORT
2-PROPENOIC ACID, ETHYL ESTER, POLYMER WITH CHLOROETHENE (CAS# 25035-97-6); BFG TSCA INVENTORY
SUBMISSION, FORM# B21463724, LOUISVILLE.

AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

NONE,NONE;
BFG-CHEMICAL, TO EPA;
1978
TSCA INVENTORY SUBMISSION OF GEONS 352, 354, 580X12, 580X119, 580X83, 580X52, 580X158, GEON
580X135. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.

DESCRIPTORS *****
REVIEW YEAR

CAS.NO.25035-97-6;TSCA INVENTORY;GEON 352;GEON 354;GEON 580X12;GEON 580X83;GEON 580X119;GEON
580X158; GEON 580X52;GEON 580X135;ETHYL ACRYLATE, VC POLYMER
1990

ITEM 249

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

731
GEN
REPORT
2-PROPENOIC ACID, ETHYL ESTER, POLYMER WITH CHLOROETHENE (CAS# 25035-97-6); BFG TSCA INVENTORY
SUBMISSION, FORM# B21463732, AVON LAKE.

AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

NONE,NONE;
BFG-CHEMICAL, TO EPA;
1978
TSCA INVENTORY SUBMISSION OF GEONS 352, 354,580X12, 580X119, 580X135, 580X158, GEON 580X83, GEON
580X52. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.

DESCRIPTORS *****
REVIEW YEAR

CAS.NO.25035-97-6;TSCA INVENTORY;GEON 352;GEON 354;GEON 580X12;GEON 580X119;GEON 580X135;GEON
580X158; GEON 580X52;GEON 580X83;ETHYL ACRYLATE, VC POLYMER
1990

ITEM 250

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

725
GEN
PAPER
WORKING CONDITIONS AND MEASURES FOR THEIR SANITATION IN THE PRODUCTION AND UTILIZATION OF VINYL
CHLORIDE PLASTICS

AUTHOR/AFFILIATION
ORIGIN

TRIBUKH SL,NONE;TIKHOMIROVA NP,NONE;LEVIN SV,NONE;KOZLOV LA;NONE;
NONE,VOL 10 PP.38-45;

DATE
DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

1949
VCM;TOXICITY;PVC;PCB'S;
HEPATITIS;ARG SANIT;
1990

BFG52777

Print

20898089

ITEM 251

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 HT,NONE;TAMBURO CH,UNIV OF LOUISVILLE;
ORIGIN TOX AND APPLIED,VOL 62 PP.1-10;
DATE 1982
DESCRIPTORS ***** VCM;METABOLISM
REVIEW YEAR 1990

ITEM 252

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 SHANINIGAN, 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 253

ACCESSION NUMBER 716
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH CHLOROETHENE AND METHYL 2-PROPENOATE (CAS# 28572-90-9): BFG TSCA INVENTORY SUBMISSION, FORM# B21463732, AVON LAKE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 460X7. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.28572-90-9:TSCA INVENTORY;GEON 460X7; AA,VC,METHYL ACRYLATE POLYMER
REVIEW YEAR 1990

ITEM 254

ACCESSION NUMBER 715
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH CHLOROETHENE, N-(HYDROXYMETHYL)-2-PROPENAMIDE AND METHYL 2-PROPENOATE (CAS# 65045-75-2): BFG TSCA INVENTORY SUBMISSION, FORM# B21463732, AVON LAKE.

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AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 590X8 AND 590X15. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.65045-75-2;TSCA INVENTORY;GEON 590X8;GEON 590X15;AA,VC,EA,N-(HM)ACRYLAMIDE,METHYL ACRYLATE POLYMER
REVIEW YEAR 1990

ITEM 255

ACCESSION NUMBER 714
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH CHLOROETHENE, ETHYL 2-PROPENOATE, N-(HYDROXYMETHYL)-2-PROPENAMIDE AND 2-PROPENITRILE (CAS# 35743-23-8): BFG TSCA INVENTORY SUBMISSION, FORM# B21464508, AVON LAKE.

AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 460X1. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.35743-23-8;TSCA INVENTORY;GEON 460X1; AA,VC,EA,N-(HM)ACRYLAMIDE,ACRYLONITRILE POLYMER
REVIEW YEAR 1990

ITEM 256

ACCESSION NUMBER 713
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH CHLOROETHENE, ETHYL 2-PROPENOATE AND N-(HYDROXYMETHYL)-2-PROPENAMIDE (CAS# 35743-21-6): BFG TSCA INVENTORY SUBMISSION, FORM# B21463732, AVON LAKE.

AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 460X9. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.35743-21-6;TSCA INVENTORY;GEON 460X9; AA,VC,EA,N-(HM)ACRYLAMIDE POLYMER
REVIEW YEAR 1990

ITEM 257

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

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DESCRIPTORS ***** A CONTROL GROUP OF UNEXPOSED WORKERS.
HELD TERMS VCM;ADIPOSE;HUMANS;EFFECTS
REVIEW YEAR BIOACCUMULATOR;DEPOSITION;CONCENTRATION;
1990

ITEM 258

ACCESSION NUMBER 711
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 259

ACCESSION NUMBER 710
FILE LOCATION GEN
DOCUMENT TYPE BIBLIOGRAPHY
TITLE OR SUBJECT LIVER ANGIOSARCOMA CASES (ALL KNOWN CASES UP TO JANUARY,1985)
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN ICI
DATE 1986, JANUARY
ABSTRACT THIS DOCUMENT IS A REVIEW OF ALL ANGIOSARCOMA DEATHS IN PEOPLE WHO HAVE BEEN EMPLOYED IN A VCM/PVC FACILITY. IT IS UPDATED APPROXIMATELY BI-ANNUALLY.

DESCRIPTORS ***** VCM;ANGIOSARCOMA;HUMANS;EFFECTS
REVIEW YEAR 1987

ITEM 260

ACCESSION NUMBER 709
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH CHLOROETHENE, ETHENYLBENZENE, ETHYL 2-PROPENOATE AND N-(HYDROXYMETHYL)-2-PROPENAMIDE (CAS# 65045-77-4); BFG TSCA INVENTORY SUBMISSION, FORM# B21464490, AVON LAKE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978

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ABSTRACT
DESCRIPTORS *****
REVIEW YEAR

TSCA INVENTORY SUBMISSION OF GEON 460X21. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
CAS.NO.65045-77-4;TSCA INVENTORY;GEON 460X21; AA,VC,EA,N-HM-2-PA POLYMER
1990

ITEM 261

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

708
GEN
REPORT
2-PROPENOIC ACID, POLYMER WITH CHLOROETHENE, ETHENYL ACETATE AND N-(HYDROXYMETHYL)-2-PROPENAMIDE
(CAS# 40311-70-4): BFG TSCA INVENTORY SUBMISSION, FORM# B21464292, AVON LAKE.

AUTHOR/AFFILIATION
ORIGIN
DATE

NONE,NONE;
BFG-CHEMICAL, TO EPA;
1978

ABSTRACT
DESCRIPTORS *****
REVIEW YEAR

TSCA INVENTORY SUBMISSION OF GEON 590X6. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
CAS.NO.40311-70-4;TSCA INVENTORY;GEON 590X6; AA,VC,EA,N-HM-2-PA POLYMER
1990

ITEM 262

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

707
GEN
REPORT
2-PROPENOIC ACID, POLYMER WITH CHLOROETHENE AND ETHENYL ACETATE (CAS# 29035-81-2): BFG TSCA
INVENTORY SUBMISSION, FORM# B21463732, AVON LAKE.

AUTHOR/AFFILIATION
ORIGIN
DATE

NONE,NONE;
BFG-CHEMICAL, TO EPA;
1978

ABSTRACT
DESCRIPTORS *****
REVIEW YEAR

TSCA INVENTORY SUBMISSION OF GEON 460X6. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
CAS.NO.29035-81-2;TSCA INVENTORY;GEON 460X6; ACRYLIC ACID,VINYL CHLORIDE,ETHENYL ACETATE POLYMER
1990

ITEM 263

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

706
GEN
PUBLICATION
ASSOCIATION OF AN ANGIOSARCOMA OF THE LIVER WITH A HEPATOMA IN A VINYL CHLORIDE WORKER
DELORE F,NONE;
NONE,VOL 23 NO.2 PP.105-114;
1978

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 *****
HELD TERMS
REVIEW YEAR

VCM;ANGIOSARCOMA;HUMANS;EFFECTS;LIVER
ANNALES D'ANATOMIE PATHOLOGIQUE;
1990

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ITEM 264

ACCESSION NUMBER 705
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH CHLOROETHENE, 1,1-DICHLOROETHENE AND 2-ETHYLHEXYL 2-PROPENOATE (CAS# 65045-76-3); BFG TSCA INVENTORY SUBMISSION, FORM# B21464490; AVON LAKE.
 AUTHOR/AFFILIATION NONE,NONE;
 ORIGIN BFG-CHEMICAL, TO EPA;
 DATE 1978
 ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 450X20. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
 DESCRIPTORS ***** CAS.NO.65045-76-3;TSCA INVENTORY;GEON 450X20; AA;VC,1,1-DCE,2-EH 2-P POLYMER
 REVIEW YEAR 1990

ITEM 265

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 WJSCHR;
 REVIEW YEAR 1990

ITEM 266

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 N,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 267

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 MN,NONE;

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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 268

ACCESSION NUMBER 701
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS
AUTHOR/AFFILIATION MARKOWITZ SS,NONE;MC DONALD CJ,SAME;FETHIERE W,SAME;KERZNER HS,SAME;
ORIGIN ARCH DERMATOL,VOL 106 PP.219-223;
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 269

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 270

ACCESSION NUMBER 694
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS
AUTHOR/AFFILIATION WILSON RH,BF6;MC CORNICK ME,SAME;TATUM CP,NONE;CREECH JL,NONE;

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ORIGIN JAMA,VOL 261 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 PHALANXES OF HANDS AND WAS FREQUENTLY ASSOCIATED WITH RAYNAUD'S SYMPTOMS. AFFECTED PERSONS RANGED IN AGE FROM 25 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 ***** VCH;AOL;HUMAN;EFFECTS;WORKERS;EPIDEMIOLOGY
REVIEW YEAR 1990

ITEM 271

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 VCH INDUCED CANCER OF THE LIVER (ANGIOSARCOMA) AND ZYMBAL GLAND.
DESCRIPTORS ***** VCH;RATS;ANGIOSARCOMA;ZYMBAL GLAND;TUMORS;CARCINOGENICITY;INHALATION; CHRONIC;EFFECTS
HELD TERMS INTERNATIONAL CONGRESS ON OCCUPATIONAL HEALTH;
REVIEW YEAR 1990

ITEM 272

ACCESSION NUMBER 687
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH BUTYL 2-PROPENOATE, 1,1-DICHLOROETHENE AND N-(HYDROXYMETHYL)-2-PROPENAMIDE (CAS# 357433-24-9): BFG TSCA INVENTORY SUBMISSION, FORM# B21464490, AVON LAKE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEONS 660X1 AND X4. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.35743-24-9;TSCA INVENTORY;GEON 660X1;GEON 660X4;AA,B 2-P,1,1-DCE,N-HM-2-PA
REVIEW YEAR 1990

ITEM 273

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;

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ORIGIN J OF AIHA, VOL 21 PP.344-346;
DATE 1960
ABSTRACT IRRITATION AND SYMPTOMS RELATING TO NARCOSIS AND DEATH OBSERVED OVER CONCENTRATIONS OF
10-40% IN MICE, RATS AND GUINEA PIGS.
DESCRIPTORS ***** VCM; INHALATION; MICE; RATS; GUINEA PIGS; NARCOSIS
REVIEW YEAR 1990

ITEM 274

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
REVIEW YEAR 1990

ITEM 275

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
AUTHOR/AFFILIATION FERON VJ, NONE; KRUYSSSE A, NONE; TIL HP, NONE;
ORIGIN NONE, VOL 13 PP.25-28;
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 AND 52 WEEKS EACH
TIME 10 RATS/SEX/GROUP WERE KILLED AND SUBJECTED TO EXTENSIVE EXAMINATIONS. THE PRESENT PAPER
DEALS WITH GROWTH, MORTALITY, HAEMATOLOGY, CLINICAL CHEMISTRY AND ORGAN WEIGHTS. THE PRESENT
STUDY DID NOT PRODUCE OBVIOUSLY SUITABLE PARAMETERS FOR EARLY DIAGNOSING "VCM-DISEASE" IN MAN.
DESCRIPTORS ***** VCM; RATS; INHALATION; CHRONIC; DETERMINATION
HELD TERMS
REVIEW YEAR 1990

ITEM 276

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;

587255 BFG

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DATE 1947, JULY
 ABSTRACT NARCOSIS AND CARDIAC ARRHYTHMIA OBSERVED IN DOGS EXPOSED TO 50% VCM.
 DESCRIPTORS ***** VCM;CARDIAC ARRHYTHMIA;NARCOSIS;INHALATION;ACUTE;DOGS
 HELD TERMS ANESTHESIA;
 REVIEW YEAR 1990

ITEM 277

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

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 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

ITEM 278

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 STRONG SINUSOIDAL ACTIVITY OF ALKALINE PHOSPHATASE WERE FOUND WITHIN "FOCI OF CELLULAR ALTERATION". THE NON-PARENCHYMAL ALTERATIONS INCLUDED FOCAL DILATATION OF SINUSOIDS, FOCAL PROLIFERATION OF ATYPICAL SINUSOIDAL CELLS AND MULTICENTRIC ANGIOSARCOMAS. THE EFFECTS OF VCM ON THE HEPATIC PARENCHYMA SEEMED TO PRECEDE THOSE ON THE HEPATIC STROMA.

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DESCRIPTORS ***** VCM;INHALATION;RATS;CHRONIC;CARCINOGENICITY;LIVER
HELD TERMS TOXICOLOGY
REVIEW YEAR 1990

ACCESSION NUMBER 600
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 AHA,VOL 24 PP.265-275;
DATE 1963, MAY-JUNE
ABSTRACT RATS EXPOSED EIGHT HOURS DAILY TO VINYL CHLORIDE AT CONCENTRATIONS OF 2
DESCRIPTORS ***** VCM;RATS;HUMANS;INHALATION;SUBCHRONIC
REVIEW YEAR 1990

ITEM 280

ACCESSION NUMBER 679
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT NONNEOPLASTIC EFFECTS OF VINYL CHLORIDE IN MOUSE LUNG
AUTHOR/AFFILIATION SUZUKI T,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) WAS REPORTED (Y. SUZUKI, 1978,ENVIRON.RES. 16,285-301). IN THE PRESENT STUDY, NONNEOPLASTIC EFFECTS IN MOUSE LUNG WERE INVESTIGATED BY LIGHT AND ELECTRON MICROSCOPY.

DESCRIPTORS ***** VCM;INHALATION;MICE;LUNG;CARCINOGENICITY;CHRONIC;EFFECTS
HELD TERMS CITY UNIV OF NEW YORK;
REVIEW YEAR 1990

ITEM 281

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.213-225;
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

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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 283

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
 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 284

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.

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DESCRIPTORS ***** VCM;INHALATION;MONKEY;PULMONARY;RHEUS MONKEY;TOXICOLOGY;LETTERS;
HELD TERMS
REVIEW YEAR 1990

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;
THIODIACETIC ACID;
REVIEW YEAR 1990

ITEM 286

ACCESSION NUMBER 673
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT RISKS TO THE OFFSPRING FROM PARENTAL OCCUPATIONAL EXPOSURES
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 287

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.

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DESCRIPTORS *****
VCM;LUNGS;RATS;IV;ELIMINATION
DISPOSITION;TOXICOLOGY LETTERS;
1990

Item 671

ACCESSION NUMBER 671

FILE LOCATION GEN

DOCUMENT TYPE PAPER

TITLE OR SUBJECT METABOLISM OF VINYL CHLORIDE

AUTHOR/AFFILIATION MATNABE PG,DOM CHEMICAL CO;HEFNER RE,SAME;GEMRING PJ,SAME;

ORIGIN DOM CHEMICAL CO

DATE 1974, NOVEMBER 14

DESCRIPTORS *****
VCM;INHALATION;METABOLISM

REVIEW YEAR 1990

Item 670

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

AUTHOR/AFFILIATION MATNABE PG,DOM CHEMICAL CO;HEFNER RE,SAME;GEMRING PJ,SAME;

ORIGIN DOM CHEMICAL CO

DATE 1976

ABSTRACT

RATS WERE EXPOSED TO ATMOSPHERES OF 2000,1000,250,150,50 AND 10 PPM VINYL CHLORIDE (VC) FOR 1-7 HOURS TO DETERMINE THE EFFECT OF VC ON THE HEPATIC NON-PROTEIN SULFHYDRYL CONTENT. EXPOSURE TO 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 BROMOSULPHALEIN (BSP).
VCM;INHALATION;RATS;METABOLISM
DISPOSITION;CLEARANCE;
1990

Item 669

ACCESSION NUMBER 669

FILE LOCATION GEN

DOCUMENT TYPE PUBLICATION

TITLE OR SUBJECT HEPATIC MACROMOLECULAR BINDING FOLLOWING EXPOSURE TO VINYL CHLORIDE

AUTHOR/AFFILIATION MATNABE PG,DOM CHEMICAL CO;ZEMPEL JA,SAME;PEGG DS,SAME;GEMRING PJ,SAME;

ORIGIN TOX AND APPLIED,VOL 44 PP.571-579;

DATE 1976

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 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 DOSELET OF VC. A SIGNIFICANT DECREASE IN MACROMOLECULAR BINDING WAS OBSERVED AT DOSELETS OF 500PPM AND ABOVE. COVALENT BINDING TO HEPATIC MACROMOLECULES WAS OBSERVED AT DOSELETS OF 500PPM AND ABOVE. AT EXPOSURES GREATER THAN 500PPM, THE AMOUNT OF ¹⁴C BOUND TO MACROMOLECULES IN THE LIVER CORRELATES WITH INDUCTION OF HEPATIC ANGIOCARCINOMA. THERE WAS NOT DETECTABLE BINDING OF RADIOACTIVITY TO EITHER DNA OR RNA IN THE LIVER. HEPATIC GLUTATHIONE CONTENT WAS SIGNIFICANTLY DECREASED ONLY AT EXPOSURE CONCENTRATIONS GREATER THAN 100PPM.

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

ITEM 291

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 WM,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

ITEM 292

ACCESSION NUMBER 667
 FILE LOCATION GEN
 DOCUMENT TYPE PUBLICATION
 TITLE OR SUBJECT CYTOCHROME P-450 AND THE METABOLISM OF VINYL CHLORIDE
 AUTHOR/AFFILIATION SALMON AG,ICI;
 ORIGIN NONE,VOL 2 NO.2 PP.109-114;
 DATE 1976
 ABSTRACT THE OXIDATION OF VINYL CHLORIDE TO NON-VOLATILE PRODUCTS IS DEPENDENT ON NADPH AND MICROSOMAL ENZYMES. THE ADDITION OF VINYL CHLORIDE TO MICROSOMES CAUSES A TYPE 1 SPECTRAL SHIFT, SIMILAR TO THAT SEEN FOR PHENOBARBITAL(11),WHICH INDICATES THE DIRECT INVOLVEMENT OF A CYTOCHROME P-450 SPECIES;THIS DIFFERENCE SPECTRUM IS CHARACTERISTIC OF SUBSTRATE BINDING TO THIS TYPE OF ENZYME. A GLUTATHIONE CONJUGATE IS PROBABLY FORMED, PERHAPS VIA A REACTIVE INTERMEDIATE.
 DESCRIPTORS ***** VCM;METABOLISM;IN VITRO;RATS;LIVER
 HELD TERMS CANCER LETTER;
 REVIEW YEAR 1990

ITEM 293

ACCESSION NUMBER 666
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT A GAS-CHROMATOGRAPHIC METHOD FOR THE PREPARATION OF ¹⁴C-LABELED VINYL CHLORIDE

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AUTHOR/AFFILIATION WAGNER ER,DOW CHEMICAL CO;HUELDER NM;SANEI;NATANABE PG,SANEI;PETER WETSANEI;BRAND;SANEI;GEHRING
PJ,SANEI;
ORIGIN NONE,VOL 11 NO.4 PP.535-542;
DATE 1975
DESCRIPTORS ***** VCM
HELD TERMS SYNTHESIS;RADIO LABELED; 3 OF LABELLED COMPOUNDS
REVIEW YEAR 1990

ITEM 294

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

ITEM 295

ACCESSION NUMBER 664
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT TESTIMONY: PHARMACOKINETICS OF VINYL CHLORIDE
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 296

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,SANEI;
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.

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ORDER NUMBER 860827-135259-WIZ -001-001
PAGE 103 SET 4 WITH 385 OF 385 ITEMS

DESCRIPTORS ***** ACROOSTEOLYSIS/CHIRHUMANEPHETIS
HELD TERMS BRITISH MEDICAL JOURNAL
REVIEW YEAR 1990

ITEM 297

ACCESSION NUMBER 662
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH BUTYL 2-PROPENOATE, 1,1-DICHLOROETHENE AND
N-(HYDROXYMETHYL)-2-PROPENAMIDE (CAS# 35743-24-9); BFG TSCA INVENTORY SUBMISSION, FORM# B21464508,
AVON LAKE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 660X2. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.35743-24-9;TSCA INVENTORY;GEON 660X2; AA,B 2-P,1,1-DCE,N-HM-2-PA
REVIEW YEAR 1990

ITEM 298

ACCESSION NUMBER 660
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH BUTYL 2-PROPENOATE AND CHLOROETHENE (CAS# 26873-66-5); BFG TSCA
INVENTORY SUBMISSION, FORM# B21463724, LOUISVILLE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 350X42. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.26873-66-5;TSCA INVENTORY;GEON 350X42; ACRYLIC ACID,BUTYL 2-PROPENOATE,CHLOROETHENE
POLYMER
REVIEW YEAR 1990

ITEM 299

ACCESSION NUMBER 659
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, POLYMER WITH BUTYL 2-PROPENOATE AND CHLOROETHENE (CAS# 26873-66-5); BFG TSCA
INVENTORY SUBMISSION, FORM# B21464508, AVON LAKE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 460X2. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.26873-66-5;TSCA INVENTORY;GEON 460X2; ACRYLIC ACID,BUTYL 2-PROPENOATE,CHLOROETHENE
POLYMER
REVIEW YEAR 1990

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ITEM 300

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 301

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 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 302

ACCESSION NUMBER 645
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-PROPENOIC ACID, BUTYL ESTER, HOMOPOLYMER (CAS# 9003-49-0): BFG TSCA INVENTORY SUBMISSION, FORM# A12797163, LOUISVILLE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 300X17. ACRYLIC ACID, BUTYL ESTER POLYMER. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.

DESCRIPTORS ***** CAS.NO.9003-49-0;TSCA INVENTORY;GEON 300X17;2-PROPENOIC ACID;BUTYL ESTER POLYMER;BUTYL ACRYLATE

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REVIEW YEAR POLYMER
1990

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 304

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 JS,UNIV OF LOUISVILLE;CREECH JL,NONE;TAMBURO CH,NONE;
ORIGIN NONE,VOL 118 NO.3 PP.549-557;
DATE 1976, MARCH
DESCRIPTORS ***** VINYL CHLORIDE;ANGIOSARCOMA;LIVER
HELD TERMS ANGIOGRAPHY;LIVER SCANS;RADIOLOGY
REVIEW YEAR 1990

ITEM 305

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
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

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

ITEM 306

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 ***** VCH;AOL;HUMAN;EFFECTS
REVIEW YEAR 1990

ITEM 307

ACCESSION NUMBER 598
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS: PART III. A CLINICAL STUDY
AUTHOR/AFFILIATION DODSON VN,UNIV OF MICHIGAN;DINMAN BD,SAME;WHITEHOUSE WM,SAME;NASR AHM,SAME;MAGNUSON HJ,SAME;
ORIGIN ARCH ENVIRON HEALTH,VOL 22 PP.83-91;
DATE 1971, JANUARY
ABSTRACT FOUR SUBJECTS WITH ACROOSTEOLYSIS WERE STUDIED CLINICALLY. ALL HAD OSTEOLYTIC LESIONS, ESPECIALLY IN THE DISTAL PHALANGES OF THE HANDS, AND RAYNAUD'S PHENOMENON. ALL HAD WORKED AS POLYVINYL CHLORIDE REACTOR-VESSEL CLEANERS, WITH HAND SCRAPING BEING THE COMMON MODE OF OPERATION. RAYNAUD'S PHENOMENON ANTECEDED OSTEOLYTIC LESIONS, ONE OF THE SUBJECTS WAS IN NEGATIVE CALCIUM AND PHOSPHORUS BALANCE. PLETHYSMOGRAPHIC ABNORMALITIES WERE PRESENT IN THREE. ESOPHAGEAL MOTILITY WAS NORMAL. SCINTISCANS OF THE HANDS USING SODIUM FLUORIDE LABELLED WITH RADIOACTIVE FLUORINE (F) REVEALED VARIABLE UPTAKES IN THE FINGERS WHICH CORRELATED WITH THE RADIOGRAPHIC LESIONS. A WIDE VARIETY OF CLINICAL LABORATORY PARAMETERS WERE NORMAL.
DESCRIPTORS ***** VCH;AOL;HUMAN;EFFECTS
REVIEW YEAR 1990

ITEM 308

ACCESSION NUMBER 597
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT OCCUPATIONAL ACROOSTEOLYSIS: PART I. AN EPIDEMIOLOGICAL STUDY
AUTHOR/AFFILIATION DINMAN BD,UNIV OF MICHIGAN;COOK MA,SAME;WHITEHOUSE WM,SAME;MAGNUSON HJ,SAME;DITCHICK T,NONE;
ORIGIN ARCH ENVIRON HEALTH,VOL 22 PP.61-73;
DATE 1971, JANUARY
ABSTRACT AN EPIDEMIOLOGICAL STUDY WAS PERFORMED COVERING 5,011 EMPLOYEES WITH 21,510 MAN-YEARS EXPERIENCE IN VARIOUS PHASES OF VINYL CHLORIDE (VC) AND POLYVINYL CHLORIDE (PVC) MANUFACTURING IN 32 PLANTS

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THROUGHOUT THE UNITED STATES AND CANADA. THE TOTAL NUMBER OF DEFINITIVE CASES OF ACROOSTEOLYSIS (AOL) WAS 25; 16 OTHER INDIVIDUALS WERE UNDER SUSPICION. THIS CONDITION IS CLEARLY ASSOCIATED WITH THE HAND CLEANING OF POLYMERIZERS. WORKERS ENGAGED IN THE PHASES OF VC OR PVC MANUFACTURING DO NOT APPEAR TO BE AT RISK OF DEVELOPING AOL. THE IMPORTANCE OF EARLY PHENOMENON AAS A CONCOMITANT OF AOL IS EMPHASIZED. SEVERAL CRITICAL APPROACHES TO RAPID MEDICAL SURVEY ARE SUGGESTED. ACROOSTEOLYSIS APPEARS TO BE A SYSTEMIC RATHER THAN LOCAL DISEASE. PRESENTLY, NEITHER THE ETIOLOGICAL AGENT NOR ITS PORTAL OF ENTRY IS KNOWN.

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

ITEM 309

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

ITEM 310

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

ITEM 311

ACCESSION NUMBER 593
 FILE LOCATION GEN
 DOCUMENT TYPE RESEARCH LAB REPORT
 TITLE OR SUBJECT HEPATIC MACROMOLECULAR BINDING FOLLOWING EXPOSURE TO VINYL CHLORIDE
 AUTHOR/AFFILIATION WATANABE PG,DOW CHEMICAL CO;ZEMPEL JA,SAME;PRESS AB,SAME;MURPHY PJ,SAME;

BFG52797

PRINTOUT FOR GARY JONES
 ORDER NUMBER 860827-135259-WIZ -001-001
 PAGE 108 SET 4 WITH 385 OF 385 ITEMS

ORIGIN DON CHEMICAL CO, TOXICOLOGY RESEARCH LAB;
 DATE 1977, APRIL 5
 ABSTRACT THE COVALENT BINDING TO HEPATIC MACROMOLECULES WAS RELATED TO THE AMOUNT OF VC METABOLIZED. AT EXPOSURES GREATER THAN 50 PPM, THE AMOUNT OF 14C BOUND TO MACROMOLECULES IN THE LIVER CORRELATES WITH INDUCTION OF HEPATIC ANGIOSARCOMA. THERE WAS NO PREPREFERENTIAL BINDING OF RADIOACTIVITY TO EITHER DNA OR RNA IN THE LIVER. HEPATIC GLUTATHIONE CONTENT WAS SIGNIFICANTLY DECREASED ONLY AT EXPOSURE CONCENTRATIONS GREATER THAN 100 PPM.

DESCRIPTORS ***** VCM;DNA
 HELD TERMS COVALENT BINDING;ALKYLATION;MACROMOLECULAR;RNA;
 REVIEW YEAR 1990

ITEM 312

ACCESSION NUMBER 592
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT LACK OF MUTAGENIC EFFECT OF VINYL CHLORIDE MONOMER IN THE MAMMALIAN SPOT TEST
 AUTHOR/AFFILIATION PETER S,NONE;UNGARY G,NONE;
 ORIGIN NONE,VOL 77 PP.195-196;
 DATE 1980
 DESCRIPTORS ***** VCM;IN VIVO;MUTAGENICITY
 HELD TERMS MAMMALIAN SPOT TEST; MUTATION RESEARCH
 REVIEW YEAR 1995

ITEM 313

ACCESSION NUMBER 591
 FILE LOCATION GEN
 DOCUMENT TYPE JOURNAL
 TITLE OR SUBJECT DNA ALKYLATION BY VINYL CHLORIDE METABOLITES: ETHENO DERIVATIVES OR 7-ALKYLATION OF GUANINE?
 AUTHOR/AFFILIATION LAIB RJ,NONE;GWINNER JH,SAME;BOLTHM,SAME;
 ORIGIN NONE,VOL 37 PP.219-221;
 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 314

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,DON CHEMICAL CO;FOX TR, SAME;NATANABE PG,SAME;
 ORIGIN CANCER RESEARCH,VOL 41 PP.4391-4398;
 DATE 1981, NOVEMBER
 DESCRIPTORS ***** VCM;DNA ;CHLOROACETALDEHYDE

BFG52798

HELD TERMS
REVIEW YEAR

IRREVERSIBLE BINDING; COVALENT BINDING; CHLORINATED ETHYLENES; CHLORINATED HYDROCARBONS; BIOCHEMICAL PHARMACOLOGY
1990

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

589
GEN
JOURNAL
MUTAGENICITY IN VITRO AND POTENTIAL CARCINOGENICITY OF CHLORINATED ETHYLENES AS A FUNCTION OF
METABOLIC OXIRANE FORMATION

AUTHOR/AFFILIATION
ORIGIN
DATE

GREIM H, NONE; BONSE G, NONE; RADWAN Z, NONE; REICHERT D, NONE; HENSCHLER D, NONE;
NONE, VOL 24 PP. 2012-2017;
1975, JULY

DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

VCM; TETRACHLOROETHYLENE; TRICHLOROETHYLENE; ETHYLENE DICHLORIDE; MUTAGENICITY; IN VITRO; OXIRANE
EPOXIDES; CHLORINATED ETHYLENES; CHLORINATED HYDROCARBONS; BIOCHEMICAL PHARMACOLOGY
1990

ITEM 316

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

588
GEN
JOURNAL
REACTIVE METABOLITES AND CARCINOGENICITY OF HALOGENATED ETHYLENES
BOLT HM, NONE; LAIB RJ, NONE; FILSER JB, NONE;
NONE, VOL 31 NO. 1 PP. 1-4;
1982

DESCRIPTORS *****

COVALENT BINDING; METABOLISM; AND MUTAGENICITY OF VCM; VINYL FLUORIDE; VINYL IDENE FLUORIDE,
VINYLIDENE CHLORIDE, EDC, TRICHLOROETHYLENE, PERCHLOROETHYLENE, VINYL BROMIDE.
VCM; VINYLIDENE CHLORIDE; ETHYLENE DICHLORIDE; TRICHLOROETHYLENE; PERCHLOROETHYLENE; MUTAGENICITY;
METABOLISM

HELD TERMS

COVALENT BINDING; VINYL FLUORIDE; VINYLIDENE FLUORIDE; EDC; VINYL BROMIDE; TCE; BIOCHEMICAL
PHARMACOLOGY;

REVIEW YEAR

1990

ITEM 317

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

587
GEN
RESEARCH LAB REPORT
LIFE-SPAN ORAL TOXICITY STUDY OF VINYL CHLORIDE IN RATS
FERON VJ, NONE; HENDRIKSEN CFM, NONE; SPECK AJ, NONE; TIL HP, NONE; SPIT BJ, NONE;
NONE, REPORT NO. R-5788;
1978, OCTOBER
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

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20898111

DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

MG/KG AND HIGHER. A FEW LUNG GLAND TUMORS OCCURRED AT THE 1.0 AND 300 MG/KG LEVELS. THERE WAS SOME INDICATION THAT VCM MAY ENHANCE THE DEVELOPMENT OF BOTH LUNG AND ADRENAL MESOTHELIOMAS AND ADENOCARCINOMAS OF THE LUNG. THE TUMOR RESPONSE OF THE LIVER OF THE RAT TO ORAL INTAKE OF VCM SEEMS TO SHIFT FROM ALMOST EXCLUSIVELY INTRACELLULAR TO HIGH LEVELS TO EXCLUSIVELY HEPATOCELLULAR TUMORS AT LOW LEVELS.
VCM;RATS;CHRONIC;CARCINOGENICITY;ANGIOSARCOMA;ADENOCARCINOMA;LUNG;LIVER;LUNG TUMORS;GLAND MESOTHELIOMA;
TUMORS
CENTRAL INSTITUTE FOR NUTRITION AND FOOD RESEARCH;
1995

ITEM 318

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

586
GEN
JOURNAL
VINYL CHLORIDE: AN EXAMPLE FOR EVALUATING MUTAGENIC EFFECTS IN MAMMALS IN VIVO AFTER EXPOSURE TO
INHALATION
BASLER A, NONE; RORBOORN G, NONE;
NONE VOL 95 PP.1-7;
1980
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 1.5%, 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.
VCM;MUTAGENICITY;BONE MARROW;CHROMOSOMAL ABERRATION;HAMSTERS;INHALATION
SCES;SISTER CHROMATID EXCHANGE;ARCH TOXICOL;
1995

DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

584
GEN
JOURNAL
REACTIONS OF VINYL CHLORIDE WITH RNA AND DNA OF VARIOUS MOUSE TISSUES IN VIVO
BERGMAN K, NONE;
NONE, VOL 49 PP.117-129;
1982
THE AUTHORS REPORT THE IRREVERSIBLE BINDING OF VCM WITH THE RNA AND DNA OF SEVERAL TISSUES.
VCM;DNA;MICE
RNA;ALKYLATION;IRREVERSIBLE BINDING;UNIV OF UPPSALA (SWEDEN); ARCH TOXICOL;
1995

ITEM 319

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT
DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

583
GEN
JOURNAL
REACTIONS OF VINYL CHLORIDE WITH RNA AND DNA OF VARIOUS MOUSE TISSUES IN VIVO
BERGMAN K, NONE;
NONE, VOL 49 PP.117-129;
1982
THE AUTHORS REPORT THE IRREVERSIBLE BINDING OF VCM WITH THE RNA AND DNA OF SEVERAL TISSUES.
VCM;DNA;MICE
RNA;ALKYLATION;IRREVERSIBLE BINDING;UNIV OF UPPSALA (SWEDEN); ARCH TOXICOL;
1995

ACCESSION NUMBER
FILE LOCATION

583
GEN

20898112

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PAGE 111 SET 4 WITH 365 OF 368 ITEMS

DOCUMENT TYPE TRADE ASSOCIATION REPORT
TITLE OR SUBJECT FINAL REPORT OF AUDIT TASK GROUP ON LIFETIME INHALATION STUDY WITH 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 321

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

ITEM 322

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
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 WAS 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 323

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

BFG52801

20898113

BFG52802

20898114

DESCRIPTORS ***** VCM:INHALATION;CARCINOGENICITY;CHRONIC;RATS;MICE;HASTERS;VCM
REVIEW YEAR 1990
BIO-TEST LABS.

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 CHA;
DATE 1973, TO 1976
ABSTRACT PROTOCOL AMENDMENTS AND COMMUNICATIONS REGARDING THE LONG-TERM INHALATION STUDY WITH VINYL
CHLORIDE SPONSORED BY CHA(ICA) AND CONDUCTED AT INDUSTRIAL BIO-TEST LABORATORIES.
DESCRIPTORS ***** INHALATION;CARCINOGENICITY;CHRONIC;RATS;MICE;HASTERS;VCM
REVIEW YEAR 1990

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.26;
DATE 1976, SEPTEMBER 21
DESCRIPTORS ***** VINYL CHLORIDE;VINYLIDENE CHLORIDE;HUMAN;ANIMAL CARCINOGEN; CARCINOGENICITY;MUTAGENICITY;
REPRODUCTION;EFFECTS
HELD TERMS VINYL BROMIDE;
REVIEW YEAR 1990

ITEM 325
ACCESSION NUMBER 575
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT PERMEATION THROUGH FIVE COMMERCIALY AVAILABLE GLOVE MATERIALS BY TWO PENTACHLOROPHENOL
FORMULATIONS
AUTHOR/AFFILIATION SILKOWSKI JB,NONE;HORSSTMAN SM,NONE;MORGAN MS,SAME;
ORIGIN J OF AIHA,VOL 45 NO.6 PP.501-504;
DATE 1964, AUGUST
ABSTRACT FIVE GLOVE MATERIALS WERE TESTED FOR PENTACHLOROPHENOL (PCP) PERMEATION (4.3% IN DIESEL OIL)
USING A NIOSH METHOD. BOTH A PVC AND NATURAL RUBBER GLOVE EXHIBITED BREAKTHROUGH IN 30 SECONDS.
LATEX/NEOPRENE DEMONSTRATED BREAKTHROUGH AFTER 60 MINUTES,BUT WITH A 5-FOLD GREATER RATE. EDMONTS
SOL-VEX (NITRILE) AND GRANET GLO-GUVE (PVC) SHOW NO PERMEATION FOR 8 AND 16 HOURS,RESPECTIVELY.
WHEN THE CHALANGE SOLUTION WAS REDUCED TO 4.2%, ALL BUT THE NATURAL RUBBER GLOVE WERE ACCEPTABLE
FOR AT LEAST 5 HOURS.
DESCRIPTORS ***** GLOVES;NITRILE RUBBER;PVC
NEOPRENE;PERMEATION;PCP;PENTACHLOROPHENOL; UNIV OF WASHINGTON;

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 ORDER NUMBER 860827-135259-WIZ -001-001
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REVIEW YEAR 1988

ITEM 327

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT

568
 GEN
 JOURNAL

TWO CASES OF LIVER ANGIOSARCOMA AMONG POLYVINYL CHLORIDE (PVC) EXTRUDERS OF AN ITALIAN FACTORY PRODUCING PVC BAGS AND OTHER CONTAINERS

AUTHOR/AFFILIATION

HALTONI C,NONE;CLINI C,NONE;ICINI F,NONE;MASINA A,NONE

ORIGIN

NONE,VOL 5 PP.297-302;

DATE

1984

ABSTRACT

TWO CASES ARE REPORTED OF LIVER ANGIOSARCOMA OCCURRING AMONG POLYVINYL CHLORIDE (PVC) EXTRUDERS FROM A SMALL ITALIAN FACTORY PRODUCING PVC BAGS AND OTHER CONTAINERS. THE POSSIBILITY THAT PVC EXTRUSION CARRIES A RISK OF LIVER ANGIOSARCOMA IS IMPORTANT BECAUSE OF THE VERY LARGE NUMBER OF PEOPLE WORKING WITH EXTRUDING, MANUFACTURING AND HANDLING PVC, AS COMPARED WITH THE NUMBER OF PEOPLE WORKING IN PVC POLYMERIZATION AND/OR VC PRODUCTION. IN THE PAST, THE LEVEL OF VINYL CHLORIDE (VC) CONCENTRATION IN PVC EXTRUSION WORKPLACES HAS BEEN POLYMERIZATION AND/OR VC PRODUCTION. IN THE PAST, THE LEVEL OF VINYL, THOUGHT TO BE "SAFE."

DESCRIPTORS *****

PVC;EXTRUSION;ANGIOSARCOMA;LIVER

HELP TERMS

AMERICAN J OF INDUSTRIAL MEDICINE;

REVIEW YEAR

1990

ITEM 328

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT

557
 GEN
 JOURNAL

OCCUPATIONAL ACROOSTEOLYSIS: REPORT OF 31 CASES

AUTHOR/AFFILIATION

WILSON RH,BFG;MC CORMICK ME,SAME;TATUM CF,UNKNOWN;CREECH JL,UNKNOWN;

ORIGIN

JAMA,VOL 201 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 *****

ACROOSTEOLYSIS;OCCUPATIONAL EXPOSURE;HANDS;VINYL CHLORIDE

HELP TERMS

RAYNAUD'S SYNDROME;

REVIEW YEAR

1990

ITEM 329

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT
 AUTHOR/AFFILIATION

548
 GEN
 JOURNAL

CARDIOVASCULAR DISEASE AND ENVIRONMENTAL EXPOSURE

ROSENMAN KD,NONE;

308259GFB

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

ITEM 330

ACCESSION NUMBER 486
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT ETHENE, CHLORO-, HOMOPOLYMER, (CASE 9002-86-2): BFG TSCA INVENTORY SUBMISSION, FORM# A12797336, AVON LAKE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON PVC RESINS. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** TSCA INVENTORY;PVC
HELD TERMS CAS.NO.9002-86-2;ETHENE,CHLORO-,HOMOPOLYMER;
REVIEW YEAR 1990

ITEM 331

ACCESSION NUMBER 481
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT ETHENE, CHLORO-, HOMOPOLYMER, (CASE 9002-86-2): BFG TSCA INVENTORY SUBMISSION, FORM# A12797395, PEDRICKTOWN.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON PVC RESINS. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.9002-86-2;TSCA INVENTORY;PVC
REVIEW YEAR 1990

ITEM 332

ACCESSION NUMBER 480
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT ETHENE, CHLORO-, HOMOPOLYMER, (CASE 9002-86-2): BFG TSCA INVENTORY SUBMISSION, FORM# A12797163,

BFG52804

Tom

right

BFG52805

20898116

LOUISVILLE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON PVC RESINS. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.9002-86-2;TSCA INVENTORY;PVC
REVIEW YEAR 1990

ITEM 333

ACCESSION NUMBER 479
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT ETHENE, CHLORO-, HOMOPOLYMER, (CAS# 9002-86-2): BFG TSCA INVENTORY SUBMISSION, FORM# A12797163, LOUISVILLE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON PVC RESINS. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.9002-86-2;TSCA INVENTORY; PVC
REVIEW YEAR 1990

ITEM 334

ACCESSION NUMBER 478
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT ETHENE, CHLORO-, HOMOPOLYMER, (CAS# 9002-86-2): BFG TSCA INVENTORY SUBMISSION, FORM# A12797403, LONG BEACH.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.9002-86-2;TSCA INVENTORY;POLYVINYL CHLORIDE
REVIEW YEAR 1990

ITEM 335

ACCESSION NUMBER 473
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT ETHENE, CHLORO-, HOMOPOLYMER, (CAS# 9002-86-2): BFG TSCA INVENTORY SUBMISSION, FORM# A12797296, HENRY.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON PVC RESINS; DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.9002-86-2;TSCA INVENTORY; PVC
REVIEW YEAR 1990

BFG52806

20898117

ITEM 336

ACCESSION NUMBER 472
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT ETHENE, CHLORO-, HOMOPOLYMER; (CAS# 9002-86-2); BFG TSCA INVENTORY SUBMISSION, FORM# A12797379, CLEVELAND.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON PVC RESINS. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES. RECORD OF PVC IMPORTED.
DESCRIPTORS ***** CAS.NO.9002-86-2;TSCA INVENTORY;PVC
REVIEW YEAR 1990

ITEM 337

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 338

ACCESSION NUMBER 457
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT CHLORINATED POLYVINYL CHLORIDE, (CAS# 68648-82-8); BFG TSCA INVENTORY SUBMISSION, FORM# C31447139, LOUISVILLE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION. DESCRIBED IN TSCA INVENTORY AS ETHENE, CHLORO-, HOMOPOLYMER, CHLORINATED. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.68648-82-8;TSCA INVENTORY;CHLORINATED POLYVINYL CHLORIDE
REVIEW YEAR 1990

ITEM 339

ACCESSION NUMBER 456
FILE LOCATION GEN
DOCUMENT TYPE REPORT

Transit

Transit

Transit

20898118

BFG52807

Tomit

TITLE OR SUBJECT CHLORINATED POLYVINYL CHLORIDE, (CAS# 68648-82-8); BFG TSCA INVENTORY SUBMISSION, FORM B21463724, LOUISVILLE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION, (CH2CCl2)N. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** DESCRIBED IN TSCA INVENTORY AS ETHENE, CHLORO-, HOMOPOLYMER, CHLORINATED .
REVIEW YEAR CAS.NO.68648-82-8;TSCA INVENTORY;CHLORINATED POLYVINYL CHLORIDE
1990

ITEM 340

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

ITEM 341

ACCESSION NUMBER 442
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT 2-BUTENEDIOIC ACID (Z)-DIETHYL ESTER, POLYMER WITH CHLOROETHENE AND ETHENYL ACETATE, (CAS# 65072-38-0); BFG TSCA INVENTORY SUBMISSION, FORM B21463724, LOUISVILLE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL, TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 450X10 AND GEON 450X11. (C#H1204.C4H6O2. C2H3CL)X; DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** CAS.NO.65072-38-0;TSCA INVENTORY;GEON 450X10;GEON 450X11
REVIEW YEAR 1990

ITEM 342

ACCESSION NUMBER 393
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT CHEMICAL ASPECTS OF THE RELATIONSHIP BETWEEN DRINKING WATER QUALITY AND LONG-TERM HEALTH EFFECTS: AN OVERVIEW
AUTHOR/AFFILIATION WESTENDORF JR,NONE;MIDDLETON AC,NONE;
ORIGIN NONE,VOL 71 PP.417-421;
DATE 1979, AUGUST
ABSTRACT THIS ARTICLE DISCUSSES WATER HARDNESS AND CARDIOVASCULAR DISEASE. MORTALITY RATES, MEDICAL DATA

Tomit

PRINTOUT FOR GARY JONES
 ORDER NUMBER 860827-135259-MIZ -001-001
 PAGE 118 SET 4 WITH 385 OF 385 ITEMS

(BLOOD DATA), AND METAL LEVELS ARE REPORTED. CORROSION OF METAL PIPE AND THE TOXIC EFFECTS OF METALS ARE DISCUSSED. THE DATA ALSO SHOWS THAT RESIDUAL CL₂ IN WATER DECREASES MUCH MORE RAPIDLY IN METAL VERSUS PVC PIPE (RESIDUAL LONGEVITY IS IMPORTANT FOR DISEASE PREVENTION).
 DESCRIPTORS ***** PVC;CHLORINE;PVC PIPE;MORTALITY;MORBIDITY;CARDIOVASCULAR;EFFECTS
 HELD TERMS POTABLE WATER;METALS;METAL PIPE;CORROSION; U. OF MIA;
 REVIEW YEAR 1989

ITEM 343

ACCESSION NUMBER 390
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT PRELIMINARY SURVEY OF CHEMICAL COMPOSITION, CONTAMINATION AND ASSOCIATED HEALTH HAZARD OF PLASTIC PIPE FOR POTABLE WATER SUPPLY.

AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

NONE, NONE;
 NONE
 1980, NOVEMBER 14
 A PLUMBERS UNION SUPPORTED REPORT ON ALL POSSIBLE INGREDIENTS/ CONTAMINANTS IN PLASTIC PIPE. THIS IS MORE SPECULATION THAN FACT, BUT WAS INTENDED TO CONVINCE CALIFORNIA REGULATORS OF A NEED FOR AN EIR (I.E. KEEP PLASTIC PIPE FROM INCREASING USE IN THE STATE).

DESCRIPTORS *****
 HELD TERMS
 COMMENTS
 REVIEW YEAR

PVC;CPVC;RISK ASSESSMENT;CONTAMINANTS
 PLUMBERS;POTABLE WATER;PLASTIC PIPE THOMAS REID ASSOCIATES;POLYBUTYLENE;POLYETHYLENE;
 RKH(84) GARBAGE;
 1986

ITEM 344

ACCESSION NUMBER 389
 FILE LOCATION GEN
 DOCUMENT TYPE REPORT
 TITLE OR SUBJECT FINAL REPORT ON POTENTIAL HEALTH HAZARDS ASSOCIATED WITH THE USE OF PLASTIC PIPE IN POTABLE WATER SYSTEMS

AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

NONE, NONE;
 NONE
 1980, OCTOBER 17
 THIS FINAL HAZARD ASSESSMENT IS BASED ON STUDIES WHICH INDUSTRY AGREED TO SPONSOR. THE LACK OF ADEQUATE METHODOLOGY AND UNION PRESSURES PREVENTED RESOLUTION OF HEALTH ISSUES RAISED BY THE UNION. THE REPORT FAILED TO FIND ANY PROBLEMS, BUT EQUIVOCATED ENOUGH TO OPEN UP THE QUESTION OF A NEED FOR AN EIR.

DESCRIPTORS *****
 HELD TERMS
 REVIEW YEAR

SOLVENTS;PVC;CPVC;WORKERS;EFFECTS ;MEK;THF
 LEACHING;PLASTIC PIPE;POTABLE WATER;VOLATILE ORGANICS;METALS;ABS; PERSONAL MONITORING;PLUMBERS;
 DIMETHYLFORMAMIDE;CYCLOHEXANONE; CALIFORNIA DEPT OF HEALTH SERVICES;
 1989

ITEM 345

ACCESSION NUMBER 388
 FILE LOCATION GEN
 DOCUMENT TYPE GOVERNMENT CORR
 TITLE OR SUBJECT SAFETY OF PLASTIC PIPES FOR USE IN POTABLE WATER DISTRIBUTION

BFG52808

AUTHOR/AFFILIATION HANSON HF,EPA;
ORIGIN EPA,TO BFG-CHEMICAL;
DATE 1982
ABSTRACT EPA POSITION STATEMENT ON POTABLE PIPE
DESCRIPTORS ***** EPA;PVC;VINYL CHLORIDE;MIGRATION
HELD TERMS PLASTIC PIPE;POTABLE WATER;LEACHING;
REVIEW YEAR 1986

ITEM 346

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 347

ACCESSION NUMBER 382
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT SOLVENT LEACHING FROM POTABLE WATER PLASTIC PIPES: FINAL REPORT
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,BY JAMES M.MONTGOMERY CONSULTING ENGINEERS;
DATE 1980, OCTOBER 6
ABSTRACT THIS WORK WAS SPONSORED BY INDUSTRY AND IS THE BASIS FOR THE OCTOBER 17, 1980, REPORT "FINAL
REPORT FOR PVC AND CPVC PIPE STUDY.
DESCRIPTORS ***** PVC;CPVC;SOLVENTS;MEK;THF;
HELD TERMS LEACHING;PLASTIC PIPE;METALS;VOLATILE ORGANICS;POTABLE WATER; CYCLOHEXANONE;DIMETHYLFORMAMIDE;
ABS
REVIEW YEAR 1989

ITEM 348

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

BFG52809

HELD TERMS

ACETAL;ALLYL ALCOHOL;ISOBUTYL 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 349

ACCESSION NUMBER

375

FILE LOCATION

GEN

DOCUMENT TYPE

PUBLICATION

TITLE OR SUBJECT

HEALTH HAZARD EVALUATION/TOXICITY DETERMINATION, WATER WELL DRILLING COMPANIES, WESTERN
TENNESSEE (REPORT NO. 75-168-309)

AUTHOR/AFFILIATION

GILLES D,NIOSH;HATCH L,NIOSH;

ORIGIN

NIOSH,REPORT NO.TR-HHE-75-168-309;

DATE

1976, JULY

ABSTRACT

ON THE BASIS OF MEDICAL AND ENVIRONMENTAL DATA COLLECTED AT THE WATER WELL DRILLERS IN WESTERN
TENNESSEE, THE USE OF POLYVINYL CHLORIDE (PVC) CEMENT IS NOT FOUND TO CONSTITUTE A HEALTH HAZARD
UNDER EXISTING CONDITIONS OF USE. ENVIRONMENTAL SAMPLES SHOW ONLY LOW LEVELS OF TETRAHYDROFURAN
AND NO DETECTABLE LEVELS OF CYCLOHEXANONE. RESPONSES TO MEDICAL QUESTIONNAIRES INDICATE NO
SYMPTOMS ASSOCIATED WITH EXPOSURE TO THE CHEMICALS.

DESCRIPTORS *****

PVC;CEMENTS;SOLVENTS;THF;DETERMINATION;NIOSH

HELD TERMS

CYCLOHEXANONE;WATER WELLS;POTABLE WATER; PERSONAL MONITORING;

REVIEW YEAR

1989

ITEM 350

ACCESSION NUMBER

374

FILE LOCATION

GEN

DOCUMENT TYPE

PLANT CORR

TITLE OR SUBJECT

WILGING HOME STUDY

AUTHOR/AFFILIATION

KOEBEL RF,BFG-AVON LAKE;

ORIGIN

BFG-AVON LAKE,TO BFG-CHEMICAL;

DATE

1981, DECEMBER 22

ABSTRACT

VOLATILE ORGANIC SAMPLING OF POTABLE WATER FROM A 6 MONTH OLD CPVC PIPE SYSTEM IN A HOME
(R.WILGING) IN AVON LAKE.

DESCRIPTORS *****

CPVC;ANALYSIS;CHLOROFORM;CARBON TETRACHLORIDE

HELD TERMS

VOLATILE ORGANICS;LEACHING;CPVC PIPE;

REVIEW YEAR

2059

ITEM 351

ACCESSION NUMBER

350

FILE LOCATION

GEN

DOCUMENT TYPE

PUBLICATION

TITLE OR SUBJECT

TETRACHLOROETHYLENE CONTAMINATION OF DRINKING WATER BY VINYL-COATED ASBESTOS-CEMENT PIPE

AUTHOR/AFFILIATION

WAKEHAM SG,NONE;DAVIS AC,NONE;WITT RT,NONE;TRIPP DM,NONE;FRENK HN,NONE;

ORIGIN

NONE,VOL 25 PP.639-645;

DATE

1980

DESCRIPTORS *****

PVC;TETRACHLOROETHYLENE

HELD TERMS

ASBESTOS-CEMENT PIPE;DRINKING WATER; BULLETIN OF ENVIRONMENTAL CONTAMINATION & TOXICOLOGY;

BFG52810

BFG52811

REVIEW YEAR 1989

ITEM 352

ACCESSION NUMBER 341
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT PRELIMINARY STUDY ON CORROSIVE LEACHING CHARACTERISTICS OF PLASTICS, COPPER, AND GALVANIZED STEEL PIPING SYSTEMS COMPONENTS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NSF
DATE 1980, SEPTEMBER
ABSTRACT COPPER,GALVANIZED,AND PLASTIC PIPE WERE STUDIED TO DETERMINE THE METALS WHICH WERE LEACHED. EXCESSIVE LEVELS OF COPPER,LEAD,TIN, AND ZINC WERE EXTRACTED FROM METAL PIPE.
DESCRIPTORS ***** PVC
HELD TERMS POTABLE WATER;METALS;LEACHING;PLASTIC PIPE;COPPER PIPE;GALVANIZED PIPE;

ITEM 353

ACCESSION NUMBER 339
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT MONITORING FOR TOXICOLOGICAL SAFETY
AUTHOR/AFFILIATION MC CLELLAND MI,NSF;
ORIGIN NONE,INTERNATIONAL CONFERENCE NEW ORLEANS;
DATE 1981
ABSTRACT IN THE U.S. MONITORING FOR TOXICOLOGICAL SAFETY OF PLASTIC PIPING SYSTEM COMPONENTS IS ACCOMPLISHED BY THE NATIONAL SANITATION FOUNDATION (NSF) THROUGH A VOLUNTARY PROGRAM OF TESTING AND LISTING UNDER NSF STANDARD 14. SAMPLES COLLECTED DURING UNANNOUNCED VISITS TO PRODUCTION FACILITIES ARE TESTED FOR EXTRACTION OF POTENTIALLY TOXIC CHEMICAL SUBSTANCES, IN ACCORDANCE WITH REQUIREMENTS IN THE STANDARD. IN ADDITION, RVCM IS MEASURED IN THE WALL OF PVC AND CPVC PIPE AND FITTINGS. TEST PROTOCOLS, INGREDIENT REVIEW PROCEDURES, AND RECENT RESULTS ARE PRESENTED. THE LOGO (NSF-PH) ON A PRODUCT,PIPE,OR FITTING, IS ASSURANCE THAT THE PRODUCT HAS BEEN TESTED AND FOUND TO CONFORM WITH ALL STANDARD 14 REQUIREMENTS FOR POTABLE WATER APPLICATIONS.
DESCRIPTORS ***** PVC;CPVC;TESTING;ANALYSIS;NSF
HELD TERMS PLASTIC PIPE;RVCM; ASCE;AMERICAN SOCIETY OF CIVIL ENGINEERS; NSF STD #14;
REVIEW YEAR 1987

ITEM 354

ACCESSION NUMBER 329
FILE LOCATION GEN
DOCUMENT TYPE RESEARCH LAB REPORT
TITLE OR SUBJECT ENVIRONMENTAL REVIEW OF PROPOSED EXPANDED USES OF PLASTIC PLUMBING PIPE
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,PROJECT NO.HSH-0010;
DATE 1983, MARCH
ABSTRACT THIS IS THE ENVIRONMENTAL REVIEW ON THE PROPOSED EXPANDED USE OF PLASTIC PIPE IN CALIFORNIA IT WILL BE INCORPORATED IN AN ENVIRONMENTAL IMPACT REPORT.
DESCRIPTORS ***** PVC;WORKER;COMBUSTION TOXICOLOGY

HELD TERMS
REVIEW YEAR

PLASTIC PIPE;EIR;PLUMBERS;PERSONAL MONITORING;WATER QUALITY;STANFORD RESEARCH INTERNATIONAL;
1986

ITEM 355

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT

323
GEN
REPORT
OCCUPATIONALLY-RELATED INJURIES AND ILLNESSES OCCURRING AMONG PLUMBERS, PIPEFITTERS AND
STEAM-FITTERS IN CALIFORNIA-1979

AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

NONE,NONE; LASSITER DV,NONE
NONE
1983, FEBRUARY 14
A LOW INCIDENCE OF CANCER AT ALL SITES WAS FOUND IN A COHORT OF PLUMBERS, PIPEFITTERS,AND STEAM
FITTERS. THE AUTHOR WAS A CONSULTANT REPORTING FOR THE STATE OF CALIFORNIA (SRI CONTRACT/EIR)

DESCRIPTORS *****
HELD TERMS

EPIDEMIOLOGY;PVC;CPVC;SOLVENTS;EFFECTS;CANCER;WORKER
PLUMBERS;EIR;CEMENTS;PLASTIC PIPE; DONALD V. LASSITER CONSULTANT;

ITEM 356

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

319
GEN
REPORT
DIFFUSION OF ORGANICS FROM CPVC PIPE (FINAL REPORT)

DESCRIPTORS *****
HELD TERMS

CPVC;ANALYSIS
CPVC PIPE;VOLATILE ORGANIC ANALYSIS;LEACHING; JAMES M. MONTGOMERY CONSULTING ENGINEERS;

ITEM 357

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

313
GEN
RESEARCH LAB REPORT
STUDY REVIEW: PRESENCE OF CHEMICALS ASSOCIATED WITH PVC/CPVC PLASTIC PIPE IN POTABLE WATER
NONE,NONE;
NONE,FOR CALIFORNIA PIPE TRADES COUNCIL;
1980, SEPTEMBER
REPORT SPONSORED BY THE PLUMBERS UNION ON ALL POSSIBLE CHEMICALS THAT MIGHT BE USED IN PLASTIC
PIPE SYSTEMS. IT WAS INTENDED TO CONVINCE CALIFORNIA THAT OUR EIR WAS NEEDED. THIS REPORT IS MORE
SPECULATION THAN FACT.

DESCRIPTORS *****
HELD TERMS
REVIEW YEAR

PVC;CPVC;MEK;THF;CONTAMINANTS
PLUMBERS;EIR;CYCLOHEXANONE;DIETHYLFORMAMIDE;PLASTIC PIPE; CALIFORNIA ANALYTICAL LABS;
1986

BFG52812

PRINTOUT FOR GARY JONES
 ORDER NUMBER 060827-135259-WIZ -001-001
 PAGE 123 SET 4 WITH 345 OF 345 ITEMS

ITEM 358

ACCESSION NUMBER 311
 FILE LOCATION GEN
 DOCUMENT TYPE PLANT CORR
 TITLE OR SUBJECT EXTRACTION OF SOLVENTS FROM SOLVENT CEMENTED CPVC PIPE
 AUTHOR/AFFILIATION DE CAPITA EG,BFG-AVON LAKE, OHIO
 ORIGIN BFG-AVON LAKE, OHIO
 DATE 1980, MARCH 21
 ABSTRACT AN ANALYTICAL REPORT OF EXTRACTION OF SOLVENTS FROM SOLVENT CEMENTED CPVC PIPE. SAMPLING ANALYSIS AND CALIBRATION DATA PROVIDED.
 DESCRIPTORS ***** SOLVENTS;THF;MEK;CPVC;EXTRACTION;MIGRATION
 HELD TERMS POTABLE WATER;CEMENTS;LEACHING;

ITEM 359

ACCESSION NUMBER 309
 FILE LOCATION GEN
 DOCUMENT TYPE PLANT CORR
 TITLE OR SUBJECT PILOT PIPE STUDY
 AUTHOR/AFFILIATION HINDERER RK,BFG-AKRON;
 ORIGIN BFG-AKRON, OHIO
 DATE 1983, FEBRUARY 25
 ABSTRACT PILOT STUDY SPONSORED BY THE PLUMBERS UNION TO RAISE AN ISSUE THAT PLASTIC PIPE COULD BE PERMEATED BY CHEMICAL-CONTAMINATED SOIL AND, THEREFORE, POSE A HAZARD TO THE PUBLIC. METAL PIPE, INTERESTINGLY, ALSO SHOWS SOLVENT PERMEATION.
 DESCRIPTORS ***** PVC;TRICHLOROETHANE;SOLVENTS;
 HELD TERMS POTABLE WATER;PLASTIC PIPE;PERMEATION;DICHLOROPROPANE;SOLVENTS;CHLORDANE;
 REVIEW YEAR 1986

ITEM 360

ACCESSION NUMBER 307
 FILE LOCATION GEN
 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,SRI-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. WILGINS, 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; ORGANOCHLORINE;TITANIUM DIOXIDE;
 HELD TERMS CEMENTS;METHYL STYRENE;LEACHING;PVC PIPE;PLASTIC PIPE;
 REVIEW YEAR 1986

BFG 31825

20898125

ITEM 361

ACCESSION NUMBER 306
FILE LOCATION GEN
DOCUMENT TYPE PUBLICATION
TITLE OR SUBJECT ORGANIC AND ORGANOTIN COMPOUNDS LEACHED FROM PVC AND CPVC PIPE
AUTHOR/AFFILIATION BOETTNER EA,EPA;BALL, GL,EPA;HOLLINGSWORTH Z,EPA;AGUIRO R,EPA;
ORIGIN EPA,EPA-600/S1-81-082;
DATE 1982, FEBRUARY
ABSTRACT LEVELS OF ORGANOTINS LEACHED WERE VERY LOW (PPT TO PPS). MEK, THF AND CYCLOHEXANONE SOLVENTS
LEACHED FROM SEALING CEMENTS WERE HIGHER (10 PPS TO 10 PPM).
DESCRIPTORS ***** PVC;CPVC;ORGANOTINS;THF;MEK
HELD TERMS PLASTIC PIPE;LEACHING;CYCLOHEXANONE;

ITEM 362

ACCESSION NUMBER 303
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT PPFA COMMENTARY ON LEACHING OF TOXIC AND CARCINOGENIC CHEMICALS INTO DRINKING WATER REQUIRES
PREPARATION OF AN EIR AND ON THE PRELIMINARY SURVEY OF CHEMICAL COMPOSITION, CONTAMINATION, AND
ASSOCIATED HEALTH HAZARD OF PLASTIC PIPE FOR POTABLE WATER SUPPLY
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NONE,NONE;
DATE 1981, JULY 1
ABSTRACT ALTHOUGH THE CALIFORNIA HOUSING AND COMMUNITY DEVELOPMENT COMMISSION HAS REQUESTED AN EIR, THE
REID REPORT AND ADAMS TESTIMONY SUBMITTED TO THE COMMISSION BY LOCAL 467 OF THE PLUMBERS AND
STEAMFITTERS UNION ("UNION") SHOULD BE DISCOUNTED AS EVIDENCE FOR THE NEED FOR OR SCOPE OF AN EIR
FOR PLASTIC PIPE BECAUSE THEY FAIL TO MEET THEIR OWN CRITERIA OF "SUBSTANTIAL EVIDENCE" AND
ARGUABILITY FOR ENVIRONMENTAL HARM. NEITHER SHOULD THEY BE CONSIDERED AS VIABLE EVIDENCE
SUPPORTING THE UNION'S UNJUSTIFIED EFFORTS TO RESTRICT THE USE OF PLASTIC PIPE.
DESCRIPTORS ***** PVC;CPVC;EFFECTS;PLASTIC
HELD TERMS PLASTIC PIPE;ENVIRONMENTAL IMPACT REPORT;PLUMBERS; PPFA;LEACHING; POTABLE WATER;
REVIEW YEAR 1986

ITEM 363

ACCESSION NUMBER 295
FILE LOCATION GEN
DOCUMENT TYPE NIOSH REPORT
TITLE OR SUBJECT HEALTH HAZARD EVALUATION REPORT: PLUMBERS AND GASFITTERS LOCAL UNION 12 BOSTON, MA.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN NIOSH,H.H.E. REPORT NO.81-336;
DATE 1982
ABSTRACT NIOSH CONDUCTED A QUESTIONNAIRE SURVEY, PERSONNEL MONITORING, AND MEDICAL EVALUATIONS OF PLUMBERS
THAT WORKED WITH PVC CEMENTS AND CLEANERS. NO EXCESSIVE SOLVENT EXPOSURES, NO IMPAIRMENT OF BRAIN
FUNCTION, AND NO CHRONIC DISEASE WAS FOUND, ALTHOUGH DIZZINESS, HEADACHES, EYE AND SKIN IRRITATION
AND TINGLING IN THE FINGERS WERE REPORTED IN THE QUESTIONNAIRE.
DESCRIPTORS ***** PVC;BRAIN;EFFECTS;MEK;THF;CEMENTS;CHRONIC

BFG52814

20898126

HELD TERMS

PERSONAL MONITORING;DISEASE; CYCLOHEXANONE;PLASTICS;

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

293
GEN
PUBLICATION
HEALTH HAZARD EVALUATION/TOXICITY DETERMINATION REPORT;RUBBER COMPANY
GUNTER BJ,NIOSH;LUCAS JB;NIOSH;
NIOSH,REPORT NO. H.H.E. 74-61-232;
1975, NOVEMBER
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;CYCLOHEXANE;TOLUENE DIISOCYANATE;TRICHLOROETHYLENE; PLASTICS;METHYLENE CHLORIDE;DEHP;VINYL CHLORIDE;DERMATITIS;PATCH TEST;EXTRUSION

HELD TERMS

PERSONNEL MONITORING; ESTANE;NIGROSINE;DI-2-ETHYL HEXYL PHTHALATE;

ITEM 365

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

285
GEN
REPORT
ACRYLIC ACID, TRIESTER WITH 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL, POLYMER WITH BUTYL ACRYLATE, (CAS# 25119-93-1): BFG TSCA INVENTORY SUBMISSION; FORM# B21464284, AVON LAKE.
NONE,NONE;
BFG-CHEMICAL, TO EPA;
1978
TSCA INVENTORY SUBMISSION OF GEON 300X13, RIGID COPOLYMER. LISTED IN TSCA INVENTORY BY CAS# AS 2-PROPENOIC ACID, BUTYL ESTER, POLYMER WITH 2- ETHYL-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1, 3-PROPANEDIYL DI-2-PROPENOATE . (C15H20O6.C7H12O2)X. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.

DESCRIPTORS ***** TSCA INVENTORY ;AA TRIESTER ETHYL(HYDROXYMETHYL)PROPANEDIOL POLY W/BUACRYLAT; CAS.NO.25119-93-1; GEON 300X13

REVIEW YEAR

2059

ITEM 366

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN

281
GEN
REPORT
ACETIC ACID, ETHENYL ESTER, POLYMER WITH CHLOROETHENE; (EAS# 9093-22-9): BFG TSCA INVENTORY SUBMISSION, FORM # A12797163; LOUISVILLE.
NONE,NONE;
BFG-CHEMICAL, TO EPA;

20898127

BFG52816

Smith
Smith

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ORDER NUMBER 860827-135259-WIZ -001-001
PAGE 126 SET 4 WITH 385 OF 385 ITEMS

DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON RESINS (SBC 1115, SBC 1117, 130X24, 130X25, 130X26, 130X27, 130X28, 130X29, 421, 427, 428, 440X30. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS FILE.
DESCRIPTORS ***** GEONS;TSCA INVENTORY ;GEON 130X24;GEON 130X25;GEON 130X26;GEON 130X27;GEON 130X28;GEON 130X29;GEON 421;GEON 427;GEON 428;GEON 440X30; ACETIC ACID;ETHENYL ESTER;POLYMER WITH CHLOROETHENE;
HELD TERMS CAS.NO.9003-22-9;
REVIEW YEAR 2059

ITEM 367

ACCESSION NUMBER 260
FILE LOCATION GEN
DOCUMENT TYPE REPORT
TITLE OR SUBJECT ACETIC ACID, ETHENYL ESTER, POLYMER WITH CHLOROETHENE AND N-(HYDROXYMETHYL)- 2-PROPENAMIDE, (CAS#65045-74-1): TSCA INVENTORY SUBMISSION, FORM # 2-PROPENAMIDE; (CAS#65045-74-1): BFG TSCA INVENTORY SUBMISSION, FORM #B21463732, AVON LAKE.
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN BFG-CHEMICAL,TO EPA;
DATE 1978
ABSTRACT TSCA INVENTORY SUBMISSION OF GEON 590X4. DOCUMENT IN CHEM GROUP ENVIRON AFFAIRS DEPT FILES.
DESCRIPTORS ***** TSCA INVENTORY ;CHLOROETHENE AND N-(HYDROXYMETHYL)-2-PROPENAMIDE; CAS.NO.65045-74-1;GEON 590X4
REVIEW YEAR 2059

ITEM 368

ACCESSION NUMBER 265
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT OCCUPATIONAL EXPOSURES TO RADIOFREQUENCY RADIATION (18-31 MHZ) FROM HF DIELECTRIC HEAT SEALERS
AUTHOR/AFFILIATION COX C,NONE;MURRAY WE,NONE;FOLEY EP,NONE;
ORIGIN AHA,VOL 43 NO.3 PP.149-153;
DATE 1982, MARCH
ABSTRACT RADIOFREQUENCY (RF) RADIATION IS THAT PORTION OF THE NONIONIZING ELECTROMAGNETIC SPECTRUM FROM APPROXIMATELY 0.01-300,000 MEGAHERTZ (MHZ). WITHIN THE RF SPECTRUM, RESEARCHERS HAVE REPORTED BIOLOGIC EFFECTS IN EXPOSED ANIMALS AND HUMANS. OF PARTICULAR CONCERN ARE EFFECTS ASSOCIATED WITH EXPOSURE LEVELS BELOS 10 MILLIWATTS PER SQUARE CENTIMETER (MW/CM²), THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARD. THESE REPORTED EFFECTS IN ANIMALS INCLUDE MICROSCOPIC OCULAR CHANGES, ALTERATIONS IN NEUROENDOCRINE FUNCTION AND IN THE CENTRAL NERVOUS SYSTEM, BEHAVIORAL CHANGES, CHANGES IN THE IMMUNOLOGIC SYSTEM, AND EMBRYOTOXIC AND REPRODUCTIVE EFFECTS. SINCE THE LITERATURE INDICATES THAT DEVIATIONS IN NORMAL BIOLOGIC VARIABLES CAN OCCUR AFTER EXPOSURE TO RF ENERGY BELOW 10 MW/CM², THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH) INITIATED AN EPIDEMIOLOGIC STUDY TO DETERMINE THE EFFECTS OF RF RADIATION ON REPRODUCTIVE FUNCTIONS IN AN EXPOSED WORKER POPULATION. PRELIMINARY INVESTIGATIONS INDICATED THAT A POTENTIALLY EXPOSED WORKER POPULATION OF 30,000-50,000 MAY EXIST WITHIN INDUSTRIES UTILIZING RF DIELECTRIC HEAT SEALERS THAT OPERATE IN THE 3-100 MHZ RANGE.
DESCRIPTORS ***** RADIOFREQUENCY RADIATION;OCCUPATIONAL EXPOSURE;PVC;
HELD TERMS DIELECTRIC HEAT SEALERS;THERMATRON;COSMOS;PARATHION;KABAR;HEALTHY
REVIEW YEAR 1989

20898128

BFG2817

ITEM 369

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

248
GEN
PUBLICATION
EPIDEMIOLOGICAL AND CLINICAL STUDIES OF POLYVINYLCHLORIDE WORKERS
SOUTAR CA,NONE;GAULD S,NONE;LLOYD M,NONE;COPLAND LN,NONE;MILBY JE,NONE;
NONE,PB84-1104021
1981, JULY

THE PRESENT STUDIES WERE DESIGNED TO EXAMINE THE PREVALENCE OF RESPIRATORY ABNORMALITY IN ALL OTHER MEMBERS OF THE CURRENT WORKFORCE WHO HAD WORKED AT ANY TIME IN THE DUSTIER PLANTS IN THE FACTORY AND WHO HAD NOT BEEN INCLUDED IN THE FIRST SURVEY, TO IDENTIFY ANY INDIVIDUALS WITH CLINICALLY IMPORTANT CHEST ILLNESS, AND TO EXAMINE IN THIS POPULATION AND IN THE ORIGINAL STUDY GROUP THE RELATIONSHIP BETWEEN DUST EXPOSURE AND RADIOLOGICAL APPEARANCES BASED ON NEW READINGS OF THE CHEST RADIOGRAPHS.

DESCRIPTORS ***** RESPIRATORY EFFECTS;PVC DUST;MORBIDITY;EPIDEMIOLOGY;
HELD TERMS RADIOLOGY;CHEST RADIOGRAPHS; NTIS;
REVIEW YEAR 1989

ITEM 370

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

232
GEN
TECHNICAL REPORT
CLOSED ROOM STUDIES TO RELATE AMBIENT VINYLIDENE CHLORIDE MONOMER CONCENTRATIONS TO RESIDUAL VINYLIDENE CHLORIDE MONOMER CONCENTRATIONS IN LATEX

WEAVER DE,BFG-CHEMICAL;

BFG-CHEMICAL,

1984, JANUARY 31

GEON 66041 LATEX CONTAINING 800 MG/KG VINYLIDENE CHLORIDE (RESIDUAL MONOMER) WAS PROCESSED IN A CLOSED AND UNVENTILATED ROOM. AIR SAMPLES SHOWED AMBIENT LEVELS OF VINYLIDENE CHLORIDE DID NOT EXCEED 5PPM (1983 ACGIH TLV) AT A 95% CONFIDENCE LEVEL. SINCE RESIDUAL VINYLIDENE CHLORIDE LEVELS IN GEON'S 650X27,660X13,AND HYCAR 2600X335 LATEXES ARE WELL BELOW 800 MG/KG PROCESSING OF THESE HYCAR 2600X335 LATEXES ARE WELL BELOW 800 MG/KG,PROCESSING OF THESE PRODUCTS SHOULD BE BELOW THE PUBLISHED TLV.

DESCRIPTORS ***** VINYLIDENE CHLORIDE;GEONS;
HELD TERMS GEON 66041 LATEX;GEON 650X17 LATEX;GEON 660X13 LATEX; HYCAR 2600X335 LATEX;

ITEM 371

ACCESSION NUMBER
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

205
GEN
JOURNAL
VINYL CHLORIDE DISORDER
WALKER AE,NONE;
NONE,VOL 105 SUPPL.21,19;
1981,

BRIEF REVIEW OF MEDICAL AND EPIDEMIOLOGIC FINDINGS RELATED TO VINYL CHLORIDE IN PVC MANUFACTURE. COINAGE OF TERM VINYL CHLORIDE DISORDER.

20898129

DESCRIPTORS ***** VCM;ACROOSTEDLYSIS;ANGIOSARCOMA;THROMBOCYTOPENIA;LINGS;
HELD TERMS ROYAL HOSPITAL ENGLAND;BRITISH J OF DERMATOLOGY;PVC FORDNET;POLYETHYLENE EPOXIDE;RAYNOLD'S
SYNDROME;SCLERODERMA;HEPATOMEGALY; SPLENOMEGALY

ITEM 372

ACCESSION NUMBER 195
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL
TITLE OR SUBJECT MARK STABILIZERS
AUTHOR/AFFILIATION NONE,NONE;
ORIGIN ARGUS CHEMICAL CORP
DATE 1961, JUNE
ABSTRACT DESCRIBES EPOXY PLASTICIZERS,LIQUID STABILIZERS,SOLID STABILIZERS; FACTORS AFFECTING THE
STABILITY OF VINYL COMPOUNDS;STABILIZER RECOMMENDATIONS FOR SPECIFIC APPLICATIONS.
DESCRIPTORS ***** MARK A;MARK XI;PVC;PLASTICIZERS
HELD TERMS MARK M;MARK LL;MARK KCB;MARK BB;MARK RFD;MARK PL;MARK GS;MARK XV; MARK C;MARK XX;MARK DMY;MARK
XI;MARK TT; MARK WS; MARK 99;MARK E; MARK HH;MARK 33;MARK 34;MARK 35;

ITEM 373

ACCESSION NUMBER 116
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT STUDY ON INJURIOUS PROPERTIES OF COMBUSTION PRODUCTS OF BUILDING MATERIALS AT INITIAL STAGE OF
FIRE
AUTHOR/AFFILIATION KISHITANI K,UNIV OF TOKYO;
ORIGIN J OF FACULTY OF ENGINEERING,VOL 31 NO.1 PP.1-35;
DATE 1971,
ABSTRACT THE STUDY WAS MADE WITH THE PURPOSE OF CLARIFYING THROUGH EXPERIMENTS THE HARMFUL NATURE OF A
BUILDING MATERIAL AT THE TIME OF ITS COMBUSTION AND IS FEATURED BY COMPREHENSIVE BIOLOGICAL
EXPERIMENTS. SUCH TYPES OF EXPERIMENTS HAVE OFTEN BEEN CARRIED OUT IN THE FIELD OF BUILDING, BUT
ALMOST ALL OF THESE HAVE BEEN CONFINED TO THE RELATIVE HARM DEPENDENT ON SURVIVAL OR DEATH OF THE
ANIMALS USED IN THE EXPERIMENTS. THIS STUDY DELVES INTO THE CAUSES OF DEATHS OF THE TEST ANIMALS
FROM WHICH IT IS ATTEMPTED TO ASCERTAIN THE CHIEF REASONS FOR THE HARMFUL NATURES OF BUILDING
MATERIALS.THIS PAPER REPORTS ON EXPERIMENTS USING MICE AND IT MAY NOT BE POSSIBLE TO RELATE THIS
DIRECTLY TO HUMAN BEINGS, BUT AT THE LEAST IT MAY BE SAID THE EFFECTS OF GAS GENERATED AT TIME OF
COMBUSTION IS AN IMPORTANT MATTER FOR CONSIDERATION MORE THAN SIMPLE SMOKE.
DESCRIPTORS ***** COMBUSTION PRODUCTS;CARBON MONOXIDE;MICE;POISONING;FIRE; SMOKE;IRRITATION OF SKIN;HEADACHES;
HELD TERMS CONVULSIONS;RESPIRATORY EFFECTS;STOMACH;INTESTINES;KIDNEYS;WOOD;PVC;POLYSTYRENE;RESINS;
BUILDING MATERIALS;PAROXYSMAL TACHYCARDIA;WOODWOOL-CEMENT BOARD; PLYWOOD;POLYURETHANE;

ITEM 374

ACCESSION NUMBER 112
FILE LOCATION GEN
DOCUMENT TYPE TECHNICAL REPORT
TITLE OR SUBJECT ISOLATED THERMAL OFF-GASES FROM A BROWN GEON COMPOUND STABILIZED WITH DIBUTYL TIN BIS-BUTYL
MALEATE
AUTHOR/AFFILIATION NIKORA JA,BFG-AVON LAKE;

BFG2818

20898130

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 ORDER NUMBER 060827-135259-WIZ -001-001
 PAGE 129 SET 4 WITH 385 OF 385 ITEMS

ORIGIN
 DATE
 ABSTRACT

BFG-AVON LAKE,
 1983, JULY 19

THE MAJOR OFF-GAS IDENTIFIED DURING THE TRAPPING EXPERIMENTS WAS FOUND TO BE N-BUTANOL. THE RELATIVE CONCENTRATION OF THE ALDEHYDE, BUTANAL, WAS FOUND TO INCREASE DURING MILLING OF THE COMPOUND VS. THE ORIGINAL LABORATORY EXPERIMENTS. NO MALEIC ANHYDRIDE, BUTYL OR DIBUTYL MALEATE WAS DETECTED. BUTANAL IS A STRONG IRRITANT WITH A STENCH THAT MAY POSSIBLY BE RELATED TO THE OPERATOR ILLNESS PROBLEM MENTIONED.

DESCRIPTORS *****
 HELD TERMS
 REVIEW YEAR

DIBUTYL MALEATE; BUTYL MALEATE; MALEIC ANHYDRIDE; PVC
 N-BUTANOL; BUTANAL;
 1990

ITEM 375

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT
 AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

111
 GEN
 TECHNICAL REPORT
 MALEIC ANHYDRIDE AIR MONITORING FOR BROWN GEON WINDOW COMPOUND
 ERNES DA, BFG-AVON LAKE;
 BFG-AVON LAKE,
 1983, JULY 8

A BROWN GEON COMPOUND IS BEING PRODUCED FOR A WINDOW FRAME PROFILE. BECAUSE OF THE POSSIBILITY OF MALEIC ANHYDRIDE FORMATION FROM THE TIN MALEATE STABILIZER, AIR SAMPLES WERE COLLECTED ON THREE SEPARATE COMPOUNDING RUNS. ONLY ONE SAMPLE SHOWED ANY DETECTABLE MALEIC ANHYDRIDE. THE LEVEL FOUND, .07MG/M3, WAS WELL BELOW THE TLV OF 1.0MG/M3, SO THERE STILL DOES NOT APPEAR TO BE A PROBLEM WITH MALEIC ANHYDRIDE EVOLUTION.

DESCRIPTORS ***** MALEIC ANHYDRIDE; BUTYL MALEATE; GEON;

ITEM 376

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT
 AUTHOR/AFFILIATION
 ORIGIN
 DATE
 ABSTRACT

99
 GEN
 TECHNICAL REPORT
 GEON 30 PHENOL EXTRACTABLES
 PAZUR AS, BFG-AVON LAKE;
 BFG-AVON LAKE, TO BFG-AVON LAKE;
 1983, AUGUST 24

HOFFMAN PRODUCES A FLEXIBLE PIPE COMPOUND FROM LONG BEACH GEON 30. THE PIPE SHOWED PHENOL EXTRACTABLES AT LEVELS TWICE THE NSF LIMIT, CONFIRMING THE NSF RESULTS. THE USE OF BIS-PHENOL A SHORTSTOPPED RESIN RESULTS IN COMPOUND WITH PHENOL EXTRACTABLES SIGNIFICANTLY ABOVE THE NSF LIMITS. EVEN WITH THE USE OF NON-SHORTSTOPPED RESIN, OUR GEON 06155 APPARENTLY CONTAINS SOURCES OF PHENOL WHICH PUT IT AT THE LIMIT OF NSF ACCEPTABILITY.

DESCRIPTORS ***** PVC RESIN; GEON 30; PHENOLS; FDA; NSF; EXTRACTION TEST;

ITEM 377

ACCESSION NUMBER
 FILE LOCATION
 DOCUMENT TYPE
 TITLE OR SUBJECT
 AUTHOR/AFFILIATION

98
 GEN
 CORRESPONDENCE
 GEON 30 PHENOL EXTRACTABLES
 BACHTEL MC, BFG-AKRON;

BFG52819

20898131

ORIGIN BFG-AKRON, TO BFG-AVON LAKE;
DATE 1983, SEPTEMBER 1
ABSTRACT SUMMARY OF THEIR CONVERSATION REGARDING EXTRACTABLE PHENOL FROM PVC RESINS OR COMPOUNDS FOR NEW
AND FDA USES AS OBTAINED IN REPORT DATED AUGUST 24, 1983.
DESCRIPTORS ***** GEON 30;PHENOL;VC RESINS;NSP;FOA;

ITEM 378

ACCESSION NUMBER 64
FILE LOCATION GEN
DOCUMENT TYPE JOURNAL
TITLE OR SUBJECT ANGIOSARCOMA OF THE SUPERIOR VENA CAVA
AUTHOR/AFFILIATION ABRATT RP,PROVINCIAL HOSPITAL SOUTH AFRICA;WILLIAMS M,NONE;HAPP M,NONE; DODD NF,NONE;UYS CJ,UNIV
OF CAPE TOWN;
ORIGIN CANCER,VOL 52 NO 4 PP.740-743;
DATE 1983, AUGUST 15
ABSTRACT THE FIRST REPORTED CASE OF AN ANGIOSARCOMA APPARENTLY ARISING FROM THE SUPERIOR VENA CAVA IS
PRESENTED. THE PATIENT, A 20-YEAR-OLD WHITE MAN, WAS TREATED BY SURGICAL EXCISION AND
RECONSTRUCTION WITH DACRON GRAFTS FROM THE LEFT AND RIGHT BRACHIOCEPHALIC VEINS TO THE RIGHT
ATRIUM. THIS WAS FOLLOWED BY A COURSE OF MEDIASTINAL IRRADIATION. THE PATIENT REMAINED CLINICALLY
DISEASE-FREE AT 24 MONTHS POST-TREATMENT. THE PATIENT HAD OCCASIONAL OCCUPATIONAL EXPOSURE TO
POLYVINYL CHLORIDE.
DESCRIPTORS ***** CANCER;ANGIOSARCOMA;VENA CAVA;PVC;OCCUPATIONAL EXPOSURE;

ITEM 379

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;BOURMAN 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.

BFG52820

20898132

DESCRIPTORS ***** AGE; VINYL CHLORIDE; HAMSTERS; MICE; RATS; NEOPLASMS; HEMANGIOMAS; CATARACTS; ADENOCARCINOMA; STOMACH; SKIN; LIVER; FETTER; ADENOCARCINOMA; STOMACH; SKIN; LIVER; FETTER; ADENOCARCINOMA; STOMACH; SKIN; LIVER; FETTER;

ITEM 380

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; ITURBA 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;

ITEM 381

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

ITEM 382

ACCESSION NUMBER 37
FILE LOCATION GEN
DOCUMENT TYPE PAPER
TITLE OR SUBJECT THE STABILIZATION OF FOOD GRADE POLYVINYL CHLORIDE COMPOUNDS WITH FDA SANCTIONED DI-N-OCTYL TIN STABILIZERS
AUTHOR/AFFILIATION LARKIN WA, M & T CHEMICAL INC; SHELDON AW, SAME; SIMMONS IL, SAME;
ORIGIN SPE, 26TH ANNUAL TECHNICAL CONFERENCE, N.Y.
DATE 1968, MAY 6-10
ABSTRACT ON JANUARY 20, 1968, AND AMENDMENT TO SECTION 121 (NOW SEC. 178.2650) OF THE FOOD PRODUCTS OF FDA WAS ISSUED, ALLOWING THE USE OF TWO DI-N-OCTYL TIN COMPOUNDS AS STABILIZERS FOR POLYVINYL CHLORIDE

BFG52821

20898133

BFG52822

ARTICLES. THE TWO COMPOUNDS FOR WHICH A PETITION WAS FILED BY B. I. CHEMICALS INC AND FOR WHICH SANCTION WAS GRANTED BY THE FDA WERE: DIOCTYLIN MALEATE (THERMOLITE 913) AND DIOCTYLIN BIS(ISOOCYLAHMERCAPTOACETATE) (THERMOLITE 911). WANT OF THE FRODOX STABILIZERS CANNOT BE CONSIDERED FOR FOOD GRADE APPLICATIONS BECAUSE OF THEIR WEAKLY ACIDIC NATURE. THESE WOULD INCLUDE COMPOUNDS BASED ON BARIUM, CADMIUM, ANTIMONY, AND LEAD. OF THE REMAINING MATERIALS CHLORINE, CALCIUM, ZINC, PHOSPHORUS AND ORGANIC COMPOUNDS. THE ORGANICS ARE NOT EFFECTIVE WHEN USED ALONE. FOR EXAMPLE, A RIGID PVC STABILIZED WITH ONLY AN EPOXY COMPOUND SUCH AS AN EPOXIDIZED SOYA BEAN OIL WOULD DISCOLOR EVEN WHEN MILLED AT 161C. STABILIZERS FOR FOOD GRADE APPLICATIONS PERFORM THE PRIMARY FUNCTION OF PROTECTING THE POLYMER AGAINST THERMAL DEGRADATION AND DISCOLORATION. DIOCTYLIN MALEATE; DIOCTYLIN BIS-LAURYLMERCAPTOACETATE; DIBUTYLIN DILAUATE; DIBUTYLIN MALEATE; DIBUTYLIN BIS-LAURYLMERCAPTOACETATE; DIBUTYLIN BIS-ISOOCYLAHMERCAPTOACETATE; DIBUTYLIN MERCAPTOPROPIONATE; HEXANE; PVC; FDA ACCEPTANCE; EXTRACTION TEST

ITEM 363

ACCESSION NUMBER 26
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

STUDY DONE FOR M & T CORP. 90-DAY FEEDING TESTS EMPLOYING DOSE LEVELS OF 10, 30, 100, 300, AND 1,000 MG/KG BODY WEIGHT PER DAY WERE CONDUCTED IN RATS WITH A SAMPLE OF METHYL T-31 IDENTIFIED BY THE CODE NO. LS-7231. IT HAD AN ACUTE ORAL LD50 OF 0.66 GR/KG BODY WEIGHT (IN CONTRADICTION TO AN EARLIER SAMPLE WHICH HAD AN LD50 OF APPROXIMATELY 10 GR/KG FOR THE RAT). AT THE TWO HIGHEST LEVELS THE COMPOUND WAS LETHAL. AT THE 10 MG LEVEL, THE RESPONSE DID NOT DIFFER FROM THOSE OF CONTROL RATS BY ANY OF THE CRITERIA EMPLOYED. AT 30 MG/KG EFFECTS WERE INTERMEDIATE BUT AT 100 MG/KG GROWTH AND FOOD INTAKE WERE DECREASED, AND ORGAN WEIGHTS ELEVATED. NEITHER THE HEMATOLOGICAL NOR BLOOD CHEMICAL FINDINGS WERE ABNORMAL, BUT BOTH THE 30 AND 100 MG LEVELS INDUCED A SIGNIFICANT INCIDENCE OF FOCAL RENAL DAMAGE.

THERMOLITE-31; LD50: GEOM HI-TEMP; DECOMPOSITION PRODUCT: DIBUTYLIN DICHLORIDE; ACUTE; RATS; ORAL; ORGANS: ERYTHROCYTES; LEUKOCYTES; KIDNEY; LUNGS; PANCREAS; THYMUS; LIVER; THYROID; ADRENAL GLANDS

ITEM 364

ACCESSION NUMBER 24
FILE LOCATION
DOCUMENT TYPE
TITLE OR SUBJECT
AUTHOR/AFFILIATION
ORIGIN
DATE
ABSTRACT

VOLATILE MATERIALS FROM GEOM HI-TEMP CRIDER LB, BFG-CHEMICAL; BFG-CHEMICAL, TO BFG-AKRON 1966, JUNE 30

IT APPEARS THAT THE IRRITATING VAPORS COMING OFF GEOM HI-TEMP COMPOUNDS DURING MILLING AT ALSO LAST WEEK WAS DUE TO AN EXCESSIVE AMOUNT OF DIBUTYLINDICHLORIDE IN THE CARDINAL STABILIZER USED IN THE COMPOUND. DBDC IS ALSO EVOLVED AS A VOLATILE PRODUCT DURING MILLING AS A RESULT OF SOME DEGRADATION OF THE POLYMER WHICH LIBERATES CHLORINE, WHICH APPARENTLY OCCURS THROUGH THE FORMATION OF A HEXAVALENT ION COMPLEX. DBDC IS VOLATILE AND MUCH OF IT IS ELIMINATED FROM THE POLYMER AS A VOLATILE MATERIAL.

DECOMPOSITION: DIBUTYLIN DICHLORIDE; STABILIZERS: GEOM HI-TEMP; DIMETHYLBENZENE; THIOURAN; VINYL

20898134

SULFIDE;CARDINAL CLEAR N-7(VOLATILE)

ITEM 385

ACCESSION NUMBER 8
FILE LOCATION GEN
DOCUMENT TYPE BOOK
TITLE OR SUBJECT PARENTERAL TOXICITY OF A SERIES OF COMMERCIALY AVAILABLE DIOCTYL AND DIBUTYL TIN STABILIZERS USED IN PVC FORMULATIONS
AUTHOR/AFFILIATION GUESS W L, UNIV OF TEXAS; O'LEARY R K, SAME; CALLEY D, SAME; MITTAN J, SAME
ORIGIN UNKNOWN
DATE 1966, CIRCA
ABSTRACT SALIENT FEATURES OF THIS RESEARCH SEEMS TO INDICATE THAT THE DIOCTYL AND DIBUTYL TIN STABILIZERS USED IN THIS STUDY EXHIBIT A HIGH DEGREE OF TOXICITY WHEN ADMINISTERED BY THE PARENTERAL ROUTE. THIS WAS EVIDENCED BY THE LOW MG/KG. LD50 VALUES, THE NECROSIS WHICH RESULTS FROM DIRECT MUSCLE INJECTION, AND BY THE INTERDERMAL IRRITATION TEST. IN ALL THESE CASES THERE WAS EVIDENCE OF EXTREME CORROSIVENESS. EVEN THOUGH THESE EXPERIMENTS DID NOT DEMONSTRATE EXTRACTIBILITY OR LACK OF OF EXTRACTIBILITY OF ORGANOTIN FROM A RIGID PVC FORMULATION, THERE WAS SOME INDICATION OF LEACHING AS INDICATED BY MUSCLE DAMAGE AROUND THE IMPLANT, BUT THIS WAS NOT CORROBORATED IN THE TISSUE CULTURE TEST WITH PVC FORMULATIONS AND EVIDENCE OF TOXICITY IS BEING CONDUCTED AT THE PRESENT TIME.
DESCRIPTORS ***** MICE; RABBITS; TOXICITY; IP; MUSCLE; SKIN IRRITATION; DERMAL; EYE IRRITATION; ORAL; DIBUTYL TIN DIISOCTYL MALEATE; DIBUTYL TIN DIISOCTYLTHIOGLYCOLATE; DIBUTYL TIN DILAURATE; DIBUTYL TIN DILAURYL MERCAPTIDE; DIOCTYL TIN BETA MERCAPTOPROPIONATE; MINERAL OIL; IN; GEON 103 EP;

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