

62069414

## ANALYSIS OF AIR POLLUTION BY GAS CHROMATOGRAPHY

SHIROKOV YU G; DRUGOV YU S; MURAV'eva G V; LETUNOVSKAYA G A  
GIG SANIT (1). 1976 50-54. Coden: GISAA

Gas chromatographic analysis of emissions from resin, rubber and vinyl chloride-based polymers in the air of industrial working areas (automobile tire manufacturing, curing of resin shoes, polystyrene production) is described. Mathematical analysis of chromatographic data aided in the identification of individual components. Sulfides, disulfides and benzaldehydes produced during curing were identified for the correct toxicological and hygienic evaluation of the air. Emissions from curing accelerators and activators, antioxidants, inhibitors and plasticizing agents were also studied. Analyses of complex emissions should include element analyses and spectral studies in addition to chromatography.

Descriptors: OCCUPATIONAL HAZARDS SULFIDES DI SULFIDES BENZALDEHYDES

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(\*10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(\*10504); BIOPHYS-BIOENGINEERING(10511); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

62067867

## FATE OF CARBON-14 VINYL CHLORIDE FOLLOWING INHALATION EXPOSURE IN RATS

WATANABE P G; MCGOWAN G R; MADRID E D; GEHRING P J

TOXICOL APPL PHARMACOL 37 (1). 1976 49-59. Coden: TXAPA

Inhalation exposure to vinyl chloride (VC) was shown to be carcinogenic in rats and man. It is important in assessing the toxicological potential of inhaled VC to understand the disposition of VC in the body. The objective of the present study was to determine the fate of inhaled [<sup>14</sup>C]VC at different exposure concentrations in rats. Male rats were exposed to 10 or 1000 ppm [<sup>14</sup>C]VC for 6 h, and the routes and rates of elimination of <sup>14</sup>C activity were followed for 72 h after termination of exposure. Following exposure to 10 ppm of VC, urinary <sup>14</sup>C activity and expired VC comprised 68 and 2%, respectively, of the recovered radioactivity. After exposure to 1000 ppm of VC, the proportion of the radioactivity in the urine decreased, while that expired as VC increased, representing 56 and 12%, respectively. The pattern of pulmonary elimination of VC per se was described by similar apparent 1st order kinetics following 10 or 1000 ppm with respective half-lives of 20.4 and 22.4 min. The elimination of <sup>14</sup>C activity in the urine occurred in accordance with a 2 exponential equation. The half-lives for the initial phase of excretion were 4.6 and 4.1 h following 10 and 1000 ppm, respectively. The percent of recovered <sup>14</sup>C activity in the

in the carcass after 72 h was 14 and 15% at the respective low and high exposure level. VC per se was not found in tissues. Urinary <sup>14</sup>C activity was separated by high pressure liquid chromatography into 3 metabolites corresponding to N-acetyl-S-(2-hydroxyethyl)cysteine, thiodiglycolic acid and a 3rd unidentified metabolite. The proportions of the urinary metabolites were not markedly influenced by the exposure magnitude. The fate of inhaled [<sup>14</sup>C]VC was dose-dependent. This is consistent with previous studies on the fate of VC following ingestion as well as inhalation.

Descriptors: HUMAN CARCINOGEN URINARY EXCRETION PULMONARY ELIMINATION HIGH PRESSURE LIQUID CHROMATOGRAPHY N ACETYL-S-2-HYDROXYETHYL CYSTEINE THIO DI GLYCOLIC-ACID FORMATION

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM METH-GENERAL(10050); BIOCHEM METH-PROTNS,PEPTDS,AM AC(10054); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOPHYS-GENERAL BIOPHYS TECH(10504); EXTERN EFF-PRESSURE(10606); MOVEMENT(12100); METABOLISM-GENL STUD,METAB PATHW(\*13002); METABOLISM-PROTNS,PEPTDS,AM ACDS(\*13012); URIN SYST/EXT SECR-PHYSL,BIOCHEM(\*15504); RESPIRATORY SYST-GENL STUD,METHS(-16001); RESPIRATORY SYST-PHYSIOL,BIOCHEM(\*16004); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); ROUTES OF IMMUNIZ,INFECT,THERAP(-22100); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-BIOCHEM(\*24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(37013)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

62067362

## A SIMPLE AND INEXPENSIVE METHOD FOR MOUNTING AN INSECT AND ITS EXCISED GENITALIA ON THE SAME PIN

ANDERSSON H

ENTOMOL SCAND 7 (2). 1976 152-153. Coden: ENT5B

Polyvinyl chloride tubing can be used as inexpensive micro-vials. The ends are sealed and flattened with hot forceps. Advantages in use of this method are listed.

Descriptors: POLY VINYL CHLORIDE TUBING

Concept Codes: GENERAL LABORATORY METHODS(\*01004); EXTERN EFF-HOT(10618); REPRODUCT SYST-GENL STUDS,METHS(\*16501); INVERTEB TAXN-INSECTA,GENL(\*63572); INVERTEB PHYSIOL-INSECTA-GENERAL(\*64072)

Biosystematic Codes: INSECTA-UNSPECIFIED(75300)

62064595

## SHEAR INDUCED HEMOLYSIS EFFECTS OF BLOOD CHEMISTRY INCLUDING AGING IN STORAGE AND SHEARING SURFACES

OFFEMAN R D; WILLIAMS M C

BIOMATER MED DEVICES ARTIF ORGANS 4 (1). 1976 49-79. Coden: BMDOA

Rotating disks were used to hemolyze blood [human] under low-stress laminar flow conditions. In the 1st sequence of tests, kinetic hemolysis curves (KHC) were obtained with polyethylene disks for 3 well-characterized bloods and repeated over a period of 4 wk. Each blood had a KHC with different shape, which maintained its characteristics while aging. Correlations were sought between D6000 (percent of complete hemolysis, after 6000 s of shear) and DO (measured before shear) by 2 means of data analysis, in terms of blood chemistry. Uric acid and very-low-density lipoprotein levels were most useful in predicting the characteristic D6000 vs. DO relation for each blood, and glucose levels correlated the rate of aging as measured by hemolysis. Other chemical factors were also displayed in terms of their influence on DO. The 2nd series of tests consisted of comparing the KHC for 4 disk materials using a 4th blood, then repeating with a 5th blood. Hemolytic rankings of the materials were the same with these 2 bloods, although the KHC shapes differed. The rankings were polyvinyl chloride [PVC] > Silastic simeq. polyethylene > polyether urethane, with PVC most hemolytic. In another sequence for examining materials effects, 5 different bloods were used to compare the hemolytic properties of Teflon, nylon, and polyethylene disks. Although the KHC for the 3 disks bore different relationships to each other with each different blood, extrapolation of data beyond 6000 s suggested a ranking of Teflon > nylon > polyethylene.

Descriptors: HUMAN ROTATING DISCS KINETIC HEMOLYSIS CURVE POLY VINYL CHLORIDE SILASTIC POLY ETHYLENE POLY ETHER URETHANE TEFLON NYLON URIC-ACID LIPO PROTEIN

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); MATHEMATIC BIOL/STATISTIC METH(04500); CLIN BIOCHEM-GENL STUDIES(10006); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS, PEPTIDES, AMINO ACID(10064); BIOCHEM STUD-LIPIDS(10066); BIOCHEM STUD-CARBOHYDR.(10068); BIOPHYS-GENERAL STUDIES(10502); BIOPHYS-BIOENGINEERING(10511); EXTERN EFF-PHYSICAL, MECH EFFECTS(10612); METABOLISM-CARBOHYDRATES(13004); METABOLISM-LIPIDS(13006); METABOLISM-PROTEINS, PEPTIDES, AM ACIDS(13012); BLOOD/BODY FLDS-BLOOD, LYMPH STUD(15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); GERONTOLOGY(24500)

Biosystematic Codes: HOMINIDAE(86215)

62061706

## DISPOSITION OF 1,2-CARBON-14 VINYL CHLORIDE IN THE RAT

BOLT H M; KAPPUS H; BUCHTER A; BOLT W

ARCH TOXICOL 35 (3). 1976 153-162. Coden: ATXKA

Rats were exposed to the carcinogen [1,2-<sup>14</sup>C] vinyl chloride in a closed system at initial concentrations below 100 ppm.

When the system was occupied by 3 rats, a half-life of vinyl chloride in the system's atmosphere of 1.13 ± 0.12 h was observed. The volume of the system was 10.3 l. Calculation of the clearance of vinyl chloride from the system revealed that about 40% of inspired vinyl chloride is absorbed by lung. Changes in respiration did not influence uptake of vinyl chloride. Uptake of vinyl chloride by the rats was completely blocked by acute pretreatment with potent inhibitors of cytochrome P-450 dependent microsomal drug metabolism (i.e., 35 mg/kg 3-bromophenyl-4(5)-imidazole or 50 mg/kg 6-nitro-1,2,3-benzothiadiazole in 0.6 ml/kg DMSO [dimethylsulfoxide]). A weaker inhibition was observed after SKF 525 A [2-dimethylaminoethyl-2,2-diphenyl valerate] or 5,6-dimethyl-1,2,3-benzothiadiazole (50 mg/kg in 0.6 ml/kg DMSO). Metirapone did not cause inhibition. Uptake of vinyl chloride was increased by pretreatment with DDT and, to a lesser extent, clotrimazole. No significant stimulation of uptake was observed after pretreatment with phenobarbital, 3-methylcholanthrene, rifampicin or chronic ethanol treatment. Immediately after exposure, highest radioactivity levels were observed in liver and kidney. The radioactive metabolites of <sup>14</sup>C-vinyl chloride were rapidly excreted, largely by the kidneys. Excretion of radioactivity in the urine was 69.4 ± 2.6% within 24 h.

Descriptors: CARCINOGEN LUNG ABSORPTION LIVER KIDNEY UPTAKE URINARY EXCRETION CYTOCHROME P-450 DEPENDENT DRUG METABOLISM INHIBITION 3 BROMOPHENYL-4 5 IMIDAZOLE 6 NITRO-1 2 3 BENZOTHIADIAZOLE 2 DI METHYLAMINOETHYL-2 2-DIPHENYL VALERATE SKF-525-A 5 6 DI METHYL-1 2 3 BENZOTHIADIAZOLE METIRAPONE DDT CLOTRIMAZOLE PHENO BARBITAL 3 METHYL CHOLANTHRENE RIFAMPICIN ETHANOL METAB-DRUGS

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); RADIATION BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACID, PURNS, PYRM(10062); BIOCHEM STUD-PROTEINS, PEPTIDES, AMINO ACID(10064); BIOCHEM STUD-PORPHYRINS, BILE PIGM(10065); BIOCHEM STUD-STEROLS, STEROIDS(10067); MINERALS(10069); ENZYMES-GEN, COMPAR STUD, COENZYMES(10802); METABOLISM-GENL STUD, METAB PATHW(13002); DIGESTIVE SYST-PHYSIOL, BIOCHEM(14004); URIN SYST/EXT SECR-PHYSL, BIOCHEM(15504); RESPIRATORY SYST-PHYSIOL, BIOCHEM(16004); ENDOCRINE SYST-ADRENALS(17004); PHARMACOL-DRUG METAB, METAB STIMU(22003); PHARMACOL-ENDOCRINE SYST(22016); ROUTES OF IMMUNIZ, INFECT, THERAP(22100); TOXICOL-GENL/EXP STUDS, METHS(22501); TOXICOL-ENVIRONMNTL, INDUSTR(22506); NEOPLSMS/NEOPL AGNTS-BIOCHEM(24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(24007); IN VITRO STUDS-CELLULR, SUBCELL(32600); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR, WATR, SL POLLN(37015); PEST CONTRL GENL/PESTICS/HERBICS(54600); ECONOM ENTOMOL-CHEM PHYS CONTRL(60016)

Biosystematic Codes: MURIDAE(86375); ABSTRACTS OF ENTOMOLOGY(96000)

62058149

## TISSUE RESPONSE TO IMPLANTED POLYMERS THE SIGNIFICANCE OF SAMPLE SHAPE

MATLAGA B F; YASENCHAK L P; SALTHOUSE T N

J BIOMED MATER RES 10 (3). 1976 391-397. Coden: JBMRB

Studies were designed to demonstrate the need for standardization of shape of samples used as implants to evaluate histotoxicity of polymer materials. Six medical-grade polymers (polypropylene, polyethylene, polyurethane, silicone rubber, poly(vinyl chloride) and Teflon) were extruded as rods with circular-, triangular- and pentagonal-shaped cross sections, and were implanted in rat gluteal muscles for 14 days. Evaluation of the tissue response was assessed by quantitating cellular lysosomal acid phosphatase enzyme activity by using microspectrophotometry. All triangular-shaped implants showed the highest enzyme activity and cellular response; pentagon shapes showed less and circular rods showed the lowest activity. The results demonstrate the need for standard sample shape for valid comparative studies of tissue response to implanted polymers.

Descriptors: RAT GLUTEAL MUSCLE POLY PROPYLENE POLY ETHYLENE POLY URETHANE SILICONE RUBBER POLY VINYL CHLORIDE TEFLON CELLULAR LYSOSOMAL ACID PHOSPHATASE CIRCULAR ROD TRIANGULAR ROD PENTAGONAL ROD MICRO SPECTROPHOTOMETRY

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM METH-PROTNS,PEPTDS,AM AC(10054); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS-PEPTIDES,AMINO ACD(10064); BIOPHYS-GENERAL BIOPHYS TECH(10504); ENZYMES-GEN,COMPAR STUD,COENZYMES(10802); ENZYMES-METHODS(10804); ENZYMES-PHYSIOLOGICAL STUDIES(+10808); CHORDATE BODY REGNS-BACK/BUTTOCK(11310); PATHOLOGY-GENERAL STUDIES(+12502); MUSCLE SYST-GENL STUDS,METHS(17501); MUSCLE SYST-PATHOLOGY(+17506); TOXICOL-GENL/EXP STUDS,METHS(+22501)

Biosystematic Codes: MURIDAE(86375)

62058120

## MIGRATION OF MINOR CONSTITUENTS FROM FOOD PACKAGING MATERIALS

GILBERT S G

J FOOD SCI 41 (4). 1976 955-958. Coden: JFDSA

Techniques for the evaluation of potential migration of minor food packaging materials constituents are discussed with emphasis on vinyl chloride monomer (VCM) migration, including recently developed methods of analysis. These methods combined with sorption isotherm theory enable calculation of maximum allowable concentration of a potential migrant (e.g., VCM) in a packaging material corresponding to an effective zero migration to the contacting phase.

Descriptors: VINYL CHLORIDE MONOMER SORPTION ISOTHERM THEORY ANALYSIS METHODS MAXIMUM ALLOWABLE CONCENTRATION

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); MOVEMENT(12100); FOOD TECH-GENL STUDS,METHS(+13502); FOOD TECH-EVALNS PHYS,CHEM PROPS(+13530); FOOD TECH-PREP,PROCESSNG-

,STORAGE(+13532); TOXICOL-GENL/EXP STUDS,METHS(22501); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); NEOPLSMS/NEOPL AGNT-S-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR,STATISTICS(+37010)

62058112

## RESPIRATOR CARTRIDGE EFFICIENCY STUDIES PART 8 EFFECT OF CONCENTRATION

NELSON G D; HARDER C A

AM IND HYG ASSOC J 37 (4). 1976 205-216. Coden: AIHAA

The effective service life of organic vapor cartridges was determined for 9 solvent vapors [acetone, benzene, carbon tetrachloride, dichloromethane, diethylamine, hexane, isopropanol, methyl acetate and methyl chloroform] and 1 gas [vinyl chloride] at concentrations ranging between 50-3000 ppm. All results showed that the time to any chosen breakthrough percent (tb) conformed to the expression  $tb = a C_b$ , where C is the challenge concentration and a and b are constants for a given set of experimental conditions. The average solvent vapor value for b at 10% breakthrough was 0.67  $\pm$  0.17. This value is not appreciably affected by flowrate; however, it is affected to some degree by relative humidity. The values vary widely depending on the conditions encountered. The service life is inversely proportional to flowrate and is shortened at relative humidities above 50%. Breakthrough times calculated from the adsorption isotherm and Mecklenburg equation were compared to those obtained by experiment. In general, best agreement was obtained at higher concentrations with the less volatile solvent vapors.

Descriptors: ACETONE BENZENE CARBON TETRA CHLORIDE DI CHLORO METHANE DI ETHYLAMINE HEXANE ISO PROPANOL METHYL ACETATE METHYL CHLOROFORM FLOW RATE RELATIVE HUMIDITY MECKLENBURG EQUATION

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(10060); BIOPHYS-BIOENGINEERING(+10511); EXTERN EFF-HUMIDITY(10620); MOVEMENT(12100); RESPIRATORY SYST-GENL STUD,METHS(+16001); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

62055099

## VINYL CHLORIDE INDUCED DEPRESSION OF HEPATIC NONPROTEIN SULFHYDRYL CONTENT AND EFFECTS ON BROMSULFOPHTHALEIN CLEARANCE IN RATS

WATANABE P G; HEFNER R E JR; GEHRING P J  
TOXICOLOGY 6 (1). 1976 1-8. Coden: TXCYA

Rats were exposed to atmospheres of 2000, 1000, 250, 150, 50 and 10 ppm vinyl chloride [VC, a reported carcinogen] for 1-7 h 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 h the depression was inconsistent, and no depression was observed after 10 ppm VC for 7 h. Exposure to 1000 ppm VC did not alter the serum clearance of bromosulphalein. [Occupational untoward effects in humans are discussed.]

Descriptors: HUMAN REPORTED CARCINOGEN OCCUPATIONAL HAZARD

Concept Codes: BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD,METAB PATHW(+13002); DIGESTIVE SYST-GENL STUDS,METHS(140-01); DIGESTIVE SYST-PHYSIOL,BIOCHEM(14004); DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(1500-2); PHARMACOL-DRUG METAB,METAB STIMU(22003); PHARMACOL-DIGESTIVE SYST(22014); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: HDMINIDAE(86215); MURIDAE(86375)

; CARDIOVASC SYST-BLD VESS PATHOL(14508); TOXICOL-ENVIRONMNTL-INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)  
Biosystematic Codes: HOMINIDAE(86215)

62054714

## COMMENT ON THE MUTAGENIC EFFECTIVENESS OF VINYL CHLORIDE METABOLITES

HUSSAIN S; OSTERMAN-GOLKAR S

CHEM-BIOL INTERACT 12 (3-4). 1976 265-267. Coden: CBINA

The mutagenic effectiveness in *Escherichia coli* per unit dose of various alkylating agents is proportional to their calculated rates of reaction. Reaction mechanisms for chloroethylene oxide, chloroacetaldehyde and 2-chloroethanol are discussed, and their kinetic data compared.

Descriptors: ESCHERICHIA-COLI CHLORO ETHYLENE OXIDE CHLORO ACETALDEHYDE 2 CHLORO ETHANOL MUTAGENS REACTION MECHANISMS

Concept Codes: CYTOLOGY/CYTOCHEM-GENL STUDIES(+02502); GENETICS/CYTOGENET-GENL STUDIES(+03502); BIOCHEM STUD-GENERAL-(10060); BIOPHYS-GENERAL STUDIES(10502); METABOLISM-GENL STUD,METAB PATHW(+13002); PHARMACOL-DRUG METAB,METAB STIMU(+22003); TOXICOL-GENL/EXP STUDS,METHS(+22501); BACTERIAL AND VIRAL GENETICS(+31500)

Biosystematic Codes: EUBACTERIALES(07200)

62055875

## DETECTION OF VINYL CHLORIDE AND RELATED COMPOUNDS BY A GAS CHROMATOGRAPHIC CHEMI LUMINESCENCE TECHNIQUE

MCCLEENY W A; MARTIN B E; BAUMGARDNER R E JR; STEVENS R K; O'KEEFE A E

ENVIRON SCI TECHNOL 10 (8). 1976 810-813. Coden: ESTHA

A new measurement technique for the environmental detection of vinyl chloride [a possible cause of human angiosarcoma of the liver] is presented. This technique involves 2 phases: separation of vinyl chloride from other trace gases by use of a gas chromatographic column and detection of radiation resulting from the chemiluminescent reaction of O<sub>3</sub> and vinyl chloride. A linear relationship between chemiluminescent response and concentration is obtained at parts per million levels with a noise equivalent concentration of 50 ppb. Commercially available chemiluminescence analyzers for the nitrogen oxides can be modified and interfaced with gas chromatographic equipment to speed commercial implementation. Sensitivity of the techniques is sufficient to meet monitoring requirements imposed by recently established employee exposure standards.

Descriptors: HUMAN POSSIBLE CARCINOGEN LIVER ANGIO SARCOMA ENVIRONMENTAL MONITORING EMPLOYEE EXPOSURE

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504); MOVEMENT(12100); DIGESTIVE SYST-PATHOLOGY(14006)

62054707

THE MUTAGENICITY OF CHLORO ETHYLENE OXIDE CHLORO ACETALDEHYDE 2 CHLORO ETHANOL AND CHLORO ACETIC-ACID CONCEIVABLE METABOLITES OF VINYL CHLORIDE

RANNUG U; GOTHE R; WACHTMEISTER C A

CHEM-BIOL INTERACT 12 (3-4). 1976 251-263. Coden: CBINA

Previous investigations showed the carcinogen vinyl chloride causes base-pair substitution in the bacterium *Salmonella typhimurium*. The ability of 4 conceivable metabolites, chloroethylene oxide, chloroacetaldehyde, 2-chloroethanol and chloroacetic acid, to cause base-pair substitution directly in *S. typhimurium* TA1535 was compared. The main comparison was performed at initial concentrations from 0.1-1.5 mM. In this region a mutagenic effect was observed only with chloroethylene oxide and chloroacetaldehyde, the former being approximately 20 times more effective than the aldehyde when compared on a molar basis. 2-Chloroethanol and chloroacetic acid were studied also at higher concentrations (1 mM-1 M), and a weak mutagenic response was found with 1 M 2-chloroethanol solution. With chloroacetic acid no enhancement of the mutation frequency could be detected. Chloroethylene oxide was approximately 450 times more effective as a mutagen than chloroacetaldehyde when the comparison is based on exposure doses, defined as the time-dependent concentrations of the compounds in the treatment solutions, integrated between the times of onset and termination of treatment. Similarly, chloroethylene oxide was 10,000-15,000 times more effective as a mutagen than ethylene oxide, used as a positive control.

Descriptors: SALMONELLA-TYPHIMURIUM CARCINOGEN MUTAGENS BASE PAIR SUBSTITUTION

Concept Codes: GENETICS/CYTOGENET-GENL STUDIES(+03502); BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD,METAB PATHW(+13002); PHARMACOL-DRUG METAB,METAB STIMU(+22003); NEOPLSMS/NEOPL AGENTS-CARCINOGENS(+24007); BACTERIAL AND VIRAL GENETICS(+31500)

Biosystematic Codes: EUBACTERIALES(07200)

(including the carcinogens vinyl chloride and trichloroethylene, as well as numerous O, S, N and Si compounds.

Descriptors: TEXAS CALIFORNIA NORTH-CAROLINA USA VINYL CHLORIDE TRI CHLORO ETHYLENE CARCINOGENS

Concept Codes: GENL BIOL-INFRMTN,DOCU,COMP APPL(+00530); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(+07504); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(+10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(+10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSM-S/NEOPL AGENTS-CARCINOGENS(+24007); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

62051578

DETERMINATION OF TRACE HAZARDOUS ORGANIC VAPOR POLLUTANTS IN AMBIENT ATMOSPHERES BY GAS CHROMATOGRAPHY MASS SPECTROMETRY COMPUTER

PELLIZZARI E D; BUNCH J E; BERKLEY R E; MCRAE J

ANAL CHEM 48 (6). 1976 803-807. Coden: ANCHA

Tenax gas chromatography cartridges were used to collect organic vapors in the ambient air of Houston, Texas, the Los Angeles, California Basin and the Raleigh, North Carolina [USA] area. The vapors were thermally desorbed and analyzed by a capillary gas-liquid chromatograph coupled to a mass spectrometer. An on-line computer recorded data on magnetic tape and generated normalized mass spectra and mass fragmentograms. The ubiquitous background of hydrocarbons from automobile exhaust were substantially resolved from each other, and 26 halogenated hydrocarbons were identified.

62044261

COVALENT INTERACTION OF METABOLITES OF THE CARCINOGEN TRI  
CHLORO ETHYLENE IN RAT HEPATIC MICROSOMES

VAN DUUREN B L; BANERJEE S

CANCER RES 36 ((7 PART 1)). 1976 2419-2422. Coden: CNREA  
Trichloroethylene (TCE), a structural analog of vinyl chloride, is known to induce hepatocellular carcinoma and other tumors in C57BL/6 mice. C3H/He F1 (hereafter known as B6C3F1) hybrid mice. TCE epoxide, a possible metabolite, is expected to be highly reactive toward cellular nucleophiles, e.g., protein and nucleic acids. The microsomal metabolism of TCE and its covalent binding to microsomal protein were examined. Rat liver microsomes were incubated in vitro with [<sup>14</sup>C]TCE. The results showed that TCE binds covalently to microsomal protein since extensive organic extractions and pronase digestion do not dissociate the TCE-protein complex. Binding was decreased by 7,8-benzoflavone, blocked by SKF-525A [8-diethylaminoethyl diphenylpropyl acetate] and enhanced by i.p. administration of phenobarbital. The possibility that TCE epoxide, once formed, could be converted to water soluble products through enzymatic hydrolysis by epoxide hydrolase was also investigated. Addition of 3,3,3-trichloropropene oxide, a potent inhibitor of epoxide hydrolase, to the incubation system enhanced the binding of TCE. These observations support the view that, in order to bind to protein, it is necessary for TCE to be metabolized to its epoxide, a reactive intermediate that is most likely involved in TCE carcinogenesis and toxicity.

Descriptors: VINYL CHLORIDE HEPATO CELLULAR CARCINOMA  
EPOXIDE FORMATION 7 8 BENZO FLAVONE BETA DI  
ETHYLAMINOETHYLDIPHENYLPROPYL ACETATE SKF-525-A PHENO BARBITAL  
3 3 3 TRI CHLORO PROPENE OXIDE METAB-DRUGS EPOXIDE HYDRASE  
PROTEIN BINDING PRONASE DIGESTION NUCLEIC-ACID BINDING

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); GENETICS/CY-  
TOGENET-ANIMAL(03506); BIOCHEM METH-GENERAL(10050); BIOCHEM  
METH-PROTNS,PEPTDS,AM AC(10054); BIOCHEM STUD-GENERAL(10060);  
BIOCHEM STUD-NUCL ACID,PURNS,PYRM(10062); BIOCHEM STUD-PROTEIN-  
S,PEPTIDES,AMINO ACD(10064); BIOPHYS-MOLECUL PROP,MACROMOLEC(-  
10506); ENZYMES-METHODS(10804); ENZYMES-PHYSIOLOGICAL  
STUDIES(+10808); CHORDATE BODY REGNS-ABDOMEN(11314);  
METABOLISM-GENL STUD,METAB PATHW(+13002); METABOLISM-PROTNS,P-  
EPTDS,AM ACDS(+13012); METABOLISM-NUCL ACD,PURINS,PYRM(+1301-  
4); DIGESTIVE SYST-PHYSIOL,BIOCHEM(+14004); DIGESTIVE  
SYST-PATHOLOGY(+14006); PHARMACOL-DRUG METAB,METAB STIMU(+220-  
03); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP  
STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(22506); NEOPL-  
SMS/NEOPL AGNTS-BIOCHEM(+24006); NEOPLSMS/NEOPL AGNTS-CARCIN-  
OGENS(+24007); IN VITRO STUDS-CELLULR,SUBCELL(32600); ENVIRON  
HEALTH-OCCUPATNL HEALTH(37013)

Biosystematic Codes: MURIDAE(86375)

WATANABE P G; MCGOWAN G R; GEHRING P J

TOXICOL APPL PHARMACOL 36 (2). 1976 339-352.

Coden:

TXAPA

Male rats were given single oral doses of 0.05, 1 and 100 mg/kg of [<sup>14</sup>C]vinyl chloride (VC), and the routes and rates of elimination of <sup>14</sup>C activity were followed for 72 h. Following 0.05 and 1 mg/kg, excretion in the urine as nonvolatile metabolites and as <sup>14</sup>C<sub>2</sub> in expired air accounted for 59-68% and 9-13%, respectively, of the administered dose. Only 1-2% of the dose was expired by the lungs as VC. After 100 mg/kg, 67% of the dose was eliminated by the lungs as VC, while urinary nonvolatile metabolites and <sup>14</sup>C<sub>2</sub> comprised 11 and 3%, respectively. Pulmonary elimination after 100 mg/kg showed an apparent biphasic clearance with half-times (t<sub>1/2</sub>) of 14.4 and 40.8 min for the respective fast and slow phases. Following 0.05 and 1 mg/kg the pulmonary clearance of VC was monophasic with t<sub>1/2</sub> of 53.3 and 57.8 min. The percentage of the dose remaining in the carcass after 72 h was 10, 11 and 2% for the 0.05-, 1- and 100-mg/kg doses, respectively. The urinary radioactivity was separated by high pressure liquid chromatography into 3 major metabolites. Two of the 3 major urinary metabolites were identified as N-acetyl-S-(2-hydroxyethyl)-cysteine and thiodiglycolic acid by gas chromatography-mass spectrometry. The proportions of the urinary metabolites were not influenced by the dose. The fate of VC following an oral dose from 1-100 mg/kg was dose-dependent. Consistent with previous studies on the fate of VC following inhalation exposure in rats the metabolism of VC appears to be a saturable process. [Industrial exposure may induce liver angiosarcomas in man.]

Descriptors: HUMAN CARCINOMAS LIVER ANGIO SARCOMA INDUSTRIAL  
EXPOSURE URINARY EXCRETION CARBON DI OXIDE EXHALATION HIGH  
PRESSURE LIQUID CHROMATOGRAPHY GAS CHROMATOGRAPHY MASS  
SPECTROMETRY N ACETYL-S-2-HYDROXYETHYL CYSTEINE THIO DI  
GLYCOLIC-ACID FORMATION

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION  
BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM-GASES(10012); BIOCHEM  
METH-GENERAL(10050); BIOCHEM METH-PROTNS,PEPTDS,AM AC(10054);  
BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,A-  
MINO ACD(10064); BIOPHYS-GENERAL BIOPHYS TECH(10504); EXTERN  
EFF-PRESSURE(10606); MOVEMENT(12100); METABOLISM-GENL  
STUD,METAB PATHW(+13002); METABOLISM-ENERGY,RESPIRATION(+1300-  
3); METABOLISM-PROTNS,PEPTDS,AM ACDS(13012); DIGESTIVE  
SYST-PHYSIOL,BIOCHEM(+14004); DIGESTIVE SYST-PATHOLOGY(+14006)  
; CARDIOVASC SYST-BLD VESS PATHOL(+14508); URIN SYST/EXT  
SECR-PHYSL,BIOCHEM(+15504); RESPIRATORY SYST-GENL STUD,METHS(-  
16001); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); ROUTES OF  
IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+2-  
2501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL  
AGNTS-BIOCHEM(+24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+2400-  
7); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

6204422

FATE OF CARBON-14 VINYL CHLORIDE AFTER SINGLE ORAL  
ADMINISTRATION IN RATS

62040654

**EFFECT OF PHTHALATE PLASTICIZER ON BLOOD COMPATIBILITY OF POLY VINYL CHLORIDE**

KIM S W; PETERSEN R V; LEE E S

J PHARM SCI 65 (5). 1976 670-673. Coden: JPMSA

The amount of a phthalate plasticizer on the surface of a sheet of polyvinyl chloride used in the fabrication of blood storage bags was quantified using attenuated total reflectance spectroscopy, water contact angle measurement and weight loss due to methanol extraction. Water wettability increased as the amount of surface phthalate extracted by methanol increased, which indicates that the accumulation of phthalate on the surface increases hydrophobicity. The extraction of phthalate by methanol consists of 2 steps: methanol first dissolves surface phthalate, and phthalate in the bulk then diffuses through the surface. The adsorption of [human and bovine] plasma proteins was investigated to determine the initial events as blood contacts the surface. The composition of adsorbed proteins on the methanol-cleansed surface differs from that on the uncleansed polyvinyl chloride surface. Albumin adsorption onto phthalate-contaminated surfaces is less than on cleansed surfaces while adsorption of gamma-globulin and fibrinogen is greater on phthalate-contaminated surfaces. Protein adsorption can be related to surface thrombus formation. Increases in [sheep] platelet numbers appeared on phthalate-contaminated surfaces as compared with methanol-treated surfaces. A phthalate may enhance platelet adhesion and aggregation when it exists on a polymer surface.

Descriptors: HUMAN SHEEP BOVINE BLOOD STORAGE BAGS PLASMA PROTEIN ADSORPTION ALBUMIN FIBRINOGEN GAMMA GLOBULIN THROMBUS FORMATION METHANOL EXTRACTION WATER CONTACT ANGLE MEASUREMENT ATTENUATED TOTAL REFLECTANCE SPECTROSCOPY

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS, PEPTIDES, AMINO ACID(10064); BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-MOLECUL PROP, MACROMOLEC(10506); MOVEMENT(12100); METABOLISM-GENL STUD, METAB PATHW(+13002); METABOLISM-PROTNS, PEPTDS, AM ACDS(+13012); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-BLOOD, LYMPH STUD(+15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY FLDS-BLD, LYM, RES PATH(+15006); TOXICOL-GENL/EXP STUDS, METHS(+22501)

Biosystematic Codes: BOVIDAE(85715); HOMINIDAE(86215)

Addition of DEHP to a stock diet of rats resulted in marked effects on incorporation of <sup>14</sup>C-acetate into lipid by liver and kidney slices; other organs, such as heart, testes and aorta were unaffected. Incorporation of <sup>14</sup>C-acetate into total lipid of liver (dpm/mg wet wt) from rats fed 0.5% or 1.0% DEHP for 10 or 18 days, respectively, was decreased to about 50% of control values. The decreased incorporation into liver lipid is not attributable to any 1 lipid fraction, inasmuch as incorporation into the phospholipid, sterol + diglyceride, free fatty acid, triglyceride and sterol ester + hydrocarbon fractions was decreased 30-70% with respect to controls. The percent distribution of <sup>14</sup>C-acetate among the individual phospholipids was about 25% lower in phosphatidyl choline of the DEHP-fed rats. In rats fed 0.5% DEHP, incorporation of <sup>14</sup>C-acetate into total lipid of kidney was similar to control values, but incorporation into the triglyceride and sterol ester + hydrocarbon fraction was decreased 30-40%, whereas incorporation into the sterol + diglyceride fraction was increased 38%. Livers from DEHP-fed rats were about 20% larger than livers from control rats and, at the 0.5% level of DEHP feeding, testes weights were elevated; no significant changes were noted in weights of spleen, heart, aorta, kidney or body weight gains in rats fed DEHP. These studies emphasize a subtle toxicity of phthalate esters not previously reported and emphasize the need for further biochemical studies to evaluate the effect of phthalates on biological systems.

Descriptors: PLASTICIZER POLY VINYL CHLORIDE PLASTICS ENVIRONMENTAL POLLUTANT LIVER KIDNEY HEART TESTES AORTA SPLEEN RADIOACTIVITY

Concept Codes: RADIATION BIOL-RAOTN, ISOTOP TECH(06504); ECOLOGY-GENL STUDIES, METHODS(07502); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(10066); BIOCHEM STUD-STEROLS, STEROIDS(10067); METABOLISM-GENL STUD, METAB PATHW(+13002); METABOLISM-LIPIDS(+13006); METABOLISM-STEROLS, STEROIDS(13008); NUTRITION-GENL, NUTR STATUS, METHS(13202); NUTRITION-PATHOGENIC DIETS(13216); DIGESTIVE SYST-PHYSIOL, BIOCHEM(+14004); DIGESTIVE SYST-PATHOL-OGY(+14006); CARDIOVASC SYST-PHYSIOL, BIOCHEM(14504); BLOOD/BODY FLDS-LYMPHAT TISS, RES(15008); URIN SYST/EXT SECR-PHYSL, BIOCHEM(+15504); URIN SYST/EXT SECR-PATHOLOGY(+15506); REPRODUCT SYST-PHYSIOL, BIOCHEM(16504); REPRODUCT SYST-PATHOLOGY(+16506); DENTAL/ORAL BIOL-GENL STUD, METHS(19001); ROUTES OF IMMUNIZ, INFECT, THERAP(22100); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); IN VITRO STUDS-CELLULR, SUBCELL(32600); ENVIRON HEALTH-AIR, WATR, SL POLLN(+37015)

Biosystematic Codes: MURIDAE(86375)

62034732

**EFFECT OF DIETARY DI-2 ETHYLHEXYL PHTHALATE ON LIPID BIOSYNTHESIS IN SELECTED TISSUES FROM THE RAT IN-VITRO**

BELL F P; NAZIR D J

LIPIDS 11 (3). 1976 216-221. Coden: LPDSA

Di-2-ethylhexyl phthalate (DEHP), a plasticizer commonly used in the production of polyvinyl chloride plastics, is an environmental pollutant. At the present time, the biological significance of phthalates in the environment is unknown.

62031500

## VINYL CHLORIDE DEPENDENT MUTAGENESIS EFFECTS OF LIVER EXTRACTS AND FREE RADICALS

GARRO A J; GUTTENPLAN J B; MILVY P

MUTAT RES 38 (2). 1976 81-88. Coden: MUREA

The mutagenic effects of vinyl chloride (VC) on *Salmonella typhimurium* strain TA1530 are enhanced by mouse or rat liver extracts. The extracts prepared from mice pretreated either with vinyl chloride or the microsomal enzyme inducer, Aroclor 1254, did not produce any greater stimulation of VC-dependent mutagenesis than extracts from untreated animals. These same extracts, differed markedly in their capacity to stimulate the mutagenicity of dimethylnitrosamine (DMN), a compound which is converted to a mutagen by an NADPH dependent microsomal mixed function oxidase. The order of activity of the extracts with DMN was Aroclor pretreated > untreated > VC pretreated. The stimulatory effect of the liver extracts on VC mediated mutagenesis did not require NADPH and was still evident in liver extracts in which the microsomal mixed function oxidase system was heat inactivated. The mutagenic activity of VC was stimulated by riboflavin in the presence of light suggesting that free radicals may be involved in VC dependent mutagenesis.

Descriptors: SALMONELLA-TYPHIMURIUM MOUSE RAT MIXED FUNCTION OXIDASE SYSTEM AROCLOR 1254 DI METHYL NITROSAMINE MUTAGENS NADPH ENZYME INDUCER HEAT INACTIVATION

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); GENETICS/C-YTOGENET-ANIMAL(\*03506); COMPARATIVE BIOCHEM-GENL STUDIES(100-10); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACID,PURNS,PYRM(10062); BIOCHEM STUD-VITAMINS(10063); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); EXTERN EFF-LIGHT,DARKNESS(10604); EXTERN EFF-HOT(10618); ENZYMES-GEN,COMPAR STUD.COENZYS(10802); ENZYMES-PHYSIOLOGICAL STUDIES(\*10808); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108); METABOLISM-GENL STUD-,METAB PATHW(\*13002); METABOLISM-VITAMINS,WATR-SOLUBLE(13018); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PHYSIO-L,BIOCHEM(\*14004); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(22506); TEMPERATURE-GENL,METHS(23001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); BACTERIA-PHYSIOLOGY,BIOCHEMISTRY(31000); BACTERIAL AND VIRAL GENETICS(\*31500)

Biosystematic Codes: EUBACTERIALES(07200); MURIDAE(86375)

62031491

## EVALUATION OF THE GENETIC EFFECTS INDUCED BY VINYL CHLORIDE MONOMER UNDER MAMMALIAN METABOLIC ACTIVATION STUDIES IN-VITRO AND IN-VIVO

LOPRIENO N; BARALE R; BARONCELLI S; BAUER C; BRONZETTI G; CAMELLINI A; CERCIGNANI G; CORSI C; GERVASI G; ET AL.

MUTAT RES 40 (2). 1976 85-96. Coden: MUREA

Analyses on the genetic effects by vinyl chloride monomer (VCM) are carried out (in vitro). Vinyl chloride in the presence of purified microsomes (sedimented at 105,000 g) obtained from mouse liver, was converted into an active

metabolite(s) which produced gene mutations in the yeast *Schizosaccharomyces pombe* (forward mutation) and gene conversions in 2 loci of a diploid *Saccharomyces cerevisiae*. The compound was active in the host-mediated assay, when mice treated with an oral dose of 700 mg/kg. The role of mutagenicity tests is discussed for the prediction of both genetic and carcinogenic risks in humans of chemical compounds in industrial use.

Descriptors: SACCHAROMYCES-CEREVISIAE SCHIZOSACCHAROMYCES-P-OMBE MOUSE HUMAN MUTAGEN MUTAGENICITY TEST CARCINOGENIC RISK HOST MEDIATED ASSAY

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); GENETICS/C-YTOGENET-ANIMAL(\*03506); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-MOLECUL PROP,MACROMOLEC- (10506); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(\*11108); MOVEMENT(1-2100); METABOLISM-GENL STUD,METAB PATHW(\*13002); DIGESTIVE SYST-PATHOLOGY(\*14006); DENTAL/ORAL BIOL-GENL STUD,METHS(1900-1); PHARMACOL-DRUG METAB,METAB STIM(\*22003); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(22-501); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); IN VITRO STUDS-CELLULAR,SUBCELL(326-00); MED/CLIN MICROBIOL-MYCOLOGY(36008); ENVIRON HEALTH-OCCUP-ATNL HEALTH(37013)

Biosystematic Codes: ASCOMYCETES(15100); HOMINIDAE(86215); MURIDAE(86375)

62029559

## MINIATURE POTASSIUM SENSITIVE ELECTRODES WITH NEUTRAL CARRIERS IN A POLY VINYL CHLORIDE MATRIX

RYBA O; PETRANEK J

TALANTA 23 (2). 1976 158-159. Coden: TLNTA

A miniature version of the K<sup>+</sup>-selective electrode with valinomycin or dimethyldibenzo-30-crown-10 in a poly(vinyl chloride) matrix is described. Electrodes having an effective membrane area of < 0.2 mm<sup>2</sup> exhibit Nernstian behavior within a range of activities of K<sup>+</sup> of 10<sup>-1</sup>-10<sup>-5</sup> M, a rapid response and good long-term potential stability.

Descriptors: VALINOMYCIN DI METHYL DI BENZO-30-CROWN-10 MEMBRANE ELECTRODES

Concept Codes: BIOCHEM METH-MINERALS(\*10059); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(\*10504); BIOPHYS-MEMBRANE PHENOMENA(10508); BIOPHYS-BIOENGINEERING(\*10511); PHARMACOL-GENERAL STUDIES(\*22002); CHEMOTHERAPY-GEN STUD,METH,METAB(38502)

62023063

## VINYL CHLORIDE MONOMER RESIDUES IN EDIBLE OILS

ROESLI M; ZIMMERLI B; MAREK B

MITT GEB LEBENSMITTELUNTERS HYG 66 (4). 1975 (RECD 1976)

507-511. Coden: MGLHA

Descriptors: POLY VINYL CHLORIDE BOTTLES

Concept Codes: COMPARATIVE BIOCHEM-GENL STUDIES(10010);  
 BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD,METAB  
 PATHW(+13002); FOOD TECH-FATS,OILS(+13514); FOOD TECH-EVALNS  
 PHYS,CHEM PROPS(+13530); FOOD TECH-PREP,PROCESSNG,STORAGE(+13-  
 532); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); NEOPLSMS/NEOPL  
 AGNTS-CARCINOGENS(+24007)

62022991

DETERMINATION OF CYCLO HEXANONE RESIDUES IN POLY VINYL  
CHLORIDE MATERIALS BY GAS LIQUID CHROMATOGRAPHY

RAPAPORT L I; KOFMAN I SH

GIG SANIT (10). 1975 (RECD 1976) 72-73. Coden: GISAA

Descriptors: MAXIMUM ALLOWABLE CONCENTRATION

Concept Codes: BIOCHEM METH-GENERAL(+10050); BIOCHEM  
 STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504);  
 EXTERN EFF-TEMPERATURE(10614); MOVEMENT(12100); TOXICOL-GENL/-  
 EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506);  
 TEMPERATURE-GENL,METHS(23001); PUB HEALTH-ADMINISTR,STATISTIC-  
 S(+37010); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

62022654

A SIMPLE GAS CHROMATOGRAPHIC METHOD FOR THE ANALYSIS OF  
TRACE ORGANICS IN AMBIENT AIR

PARKES D G; GANZ C R; POLINSKY A; SCHULZE J

AM IND HYG ASSOC J 37 (3). 1976 165-173. Coden: AIHAA

Descriptors: INDUSTRIAL PLANT ATMOSPHERE POLLUTION BIS  
 CHLOROMETHYL ETHER VINYL CHLORIDE MONOMER CARCINOGENS VOLATILE  
 KETONES

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500);  
 ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM-GASES(+10012);  
 BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060);  
 BIOPHYS-GENERAL BIOPHYS TECH(+10504); EXTERN EFF-HOT(10618);  
 MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TEMPERA-  
 TURE-GENL,METHS(23001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+240-  
 07); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

62022653

DIRECT INJECTION OF GASEOUS SAMPLES INTO A MICROWAVE INDUCED  
DISCHARGE

SERRA L D F A; RISBY T H

ANAL CHEM 48 (4). 1976 673-676. Coden: ANCHA

Descriptors: VINYL CHLORIDE CARCINOGEN AIR POLLUTION

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500);  
 RADIATION BIOL-RADTN,ISOTOP TECH(06504); ECOLOGY-BIOCLIMATOL,-  
 BIOMETEOROL(07504); BIOCHEM-GASES(+10012); BIOCHEM METH-GENERAL(+10050);  
 BIOCHEM STUD-GENERAL(+10060); BIOPHYS-GENERAL  
 BIOPHYS TECH(+10504); EXTERN EFF-PRESSURE(10606); EXTERN  
 EFF-ELECTR,MAGNET,GRAVITY(10610); MOVEMENT(12100); TOXICOL-EN-  
 VIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+  
 24007); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

62022646

TRACE ANALYSIS FOR CHLORINATED HYDRO CARBONS IN AIR BY  
QUANTITATIVE COMBUSTION AND COULOMETRIC CHLORIDE DETERMINATION  
APPLICATION TO STANDARDIZATION OF VINYL CHLORIDE PERMEATION  
TUBES

CEDERGREN A; FREDRIKSSON S A

TALANTA 23 (3). 1976 217-223. Coden: TLNTA

Descriptors: CARCINOGEN POLLUTION

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL  
 BIOL/HUMAN ECOLOGY(05500); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07-  
 504); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050);  
 BIOCHEM STUD-GENERAL(+10060); MINERALS(10069); BIOPHYS-GENERAL  
 BIOPHYS TECH(+10504); EXTERN EFF-HOT(10618); TOXICOL-ENVIRONM-  
 NTL,INDUSTR(+22506); TEMPERATURE-GENL,METHS(23001); NEOPLSMS/-  
 NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL  
 HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

62017308

CONSTRUCTIONAL POLYMERIC MATERIALS ON A BASE OF EPOXY RESINS  
AND THEIR HYGIENIC REGULATION

KRAVCHENKO T I; MALYGINA E F

GIG SANIT (10). 1975 (RECD 1976) 110-111. Coden: GISAA

Descriptors: PHENOL FORMALDEHYDE EPI CHLOROHYDRIN TOLUENE  
 XYLENE NAPHTHALENE POLY VINYL CHLORIDE DI OCTYL PHTHALATE TALC  
 KAOLIN PERMISSIBLE LEVEL

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); PUB  
 HEALTH-ADMINISTR,STATISTICS(+37010); ENVIRON HEALTH-AIR,WATR,-  
 SL POLLN(+37015)

62017301

## CONFERENCE ON TOXICOLOGY EPIDEMIOLOGY HEALTH EFFECTS OF PESTICIDES A REVIEW OF THE PROBLEM

KAY K

CLIN TOXICOL 8 (3). 1975 289-300. Coden: CTOXA

Descriptors: HUMAN WORKERS USA 2 4 5-T HERBICIDE VINYL CHLORIDE ARSENIC CARCINOGENS LIVER HEM ANGIO SARCOMA POLY CHLORINATED BI PHENYLS OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); MOVEMENT(12-100); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(14508); NERVOUS SYST-PATHOLOGY(20506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR,STATISTICS(+37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); EPIDEMIOL-ORGANIC DIS,NEOPLASMS(+37054); AGRONOMY-WEEDS AND WEED CONTROL(52518); PEST CONTRL GENL/PESTICS/HERBICS(+54600)

Biosystematic Codes: HOMINIDAE(86215)

62015431

## THOROTRAST AND THE LIVER A REMINDER

SELINGER M; KOFF R S

GASTROENTEROLOGY 68 ((4 PART 1)). 1975 799-803. Coden: GASTA

Descriptors: JAPAN HUMAN ARSENIC VINYL CHLORIDE CARCINOGENS ENVIRONMENTAL EXPOSURE LIVER CELL CARCINOMA ANGIO SARCOMA CHOLANGIO CARCINOMA RES TUMORS

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION BIOL-RADTN,ISOTOP TECH(06504); RADIATION BIOL-RADTN EFF,PROTECT(+06506); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); PATHOLOGY-COMPARATIVE(1-2503); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508); PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); PHARMACOL-DRUG METAB,-METAB STIMU(+22003); TOXICOL-PHARMACOLOGICAL(+22504); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-IMMUNOLOGY(24003); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); NEOPLSMS/NEOPL AGNTS-BLOOD,RES(+24010); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(34508); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); ENVIRON HEALTH-RADIATION HEALTH(37017); EPIDEMIOL-ORGANIC DIS,NEOPLASMS(37054)

Biosystematic Codes: HOMINIDAE(86215)

62015404

MUTAGENICITY IN-VITRO AND POTENTIAL CARCINOGENICITY OF CHLORINATED ETHYLENES AS A FUNCTION OF METABOLIC OXIRANE FORMATION

GREIM H; BONSE G; RADWAN Z; REICHERT D; HENSCHLER D

BIOCHEM PHARMACOL 24 (21). 1975 2013-2017. Coden: BCPA  
Descriptors: HUMAN ANIMAL MOUSE LIVER MICROSOMAL ENZYME SYSTEM ESCHERICHIA-COLI VINYL CHLORIDE TRI CHLORO ETHYLENE CIS-1 1 DI CHLORO ETHYLENE TETRA CHLORO ETHYLENE TRANS DI CHLORO ETHYLENE CARCINOGENS

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(+02506); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); ENZYMES-PHYSIOLOGICAL STUDIES(+10808); METABOLISM-GENL STUD,METAB PATHW(+13002); DIGESTIVE SYST-PHYSIOL,BIOCHEM(+14004); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+2-2501); NEOPLSMS/NEOPL AGNTS-BIOCHEM(+24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); BACTERIAL AND VIRAL GENETICS(+3150-0); MICROBIOLOG APPARAT,METHS,MEDIA(32000); IN VITRO STUDS-CELLULR,SUBCELL(32600); MED/CLIN MICROBIOL-BACTERIOLOGY(+36002)

Biosystematic Codes: EUBACTERIALES(07200); MAMMALIA-UNSPECIFIED AND EXTINCT(85700); HOMINIDAE(86215); MURIDAE(86375)

62014513

## CRYO GLOBULINEMIA IN RAYNAUDS PHENOMENON DUE TO VINYL CHLORIDE

LANGAUER-LEWOWICKA H; DUDZIAK Z; BYCZKOWSKA Z; MARKS J

INT ARCH OCCUP ENVIRON HEALTH 36 (3). 1976 197-207. Coden: IADHD

Descriptors: HUMAN WORKERS ACRO OSTEOLYSIS SCLERODERMA-LIKE CHANGES IMMUNO ELECTROPHORESIS SEPHADEX G-200 FILTRATION

Concept Codes: CLIN BIOCHEM-GENL STUDIES(10006); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM METH-PROTNS,PEPTDS,AM AC(10054); BIOCHEM METH-LIPIDS(10056); BIOCHEM METH-CARBOHYDRATES(10058); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); BIOCHEM STUD-LIPIDS(+10066); BIOCHEM STUD-CARBOHYDR(10068); BIOPHYS-GENERAL BIOPHYS TECH(10504); EXTERN EFF-COLD(+10616); CHORDATE BODY REGNS-EXTREMITIES(11318); MOVEMENT(12100); METABOLISM-CARBOHYDRATES(13004); METABOLISM-LIPIDS(13006); METABOLISM-PROTNS,PEPTDS,AM ACDS(+13012); METABOLISM-METABOLIC DISORDERS(+13020); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); BLOOD/BODY FLDS-BLD,LYM,RES PATH(15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TEMPERATURE-CRYOBIOLOGY(+23004); TEMPERATURE-HYPO,HYPERTHERMIA(+23006); IMMUNOL/IMMUNOCHEM-GEN METH(34502); IMMUNOL/IMMUNOCHEM-IMMUNOHEMATOL(+34506); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(+34508); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215)

62013241

## MARINE FOULING ANIMALS IN THE BAY OF HAMANA-KO JAPAN

KAJIHARA T; HIRANO R; CHIBA K

VELIGER 18 (4). 1976 361-366. Coden: VLGH

Descriptors: BALANUS-RETICULATUS; MERCIERELLA-ENIGMATICA; TRICELLARIA-OCCIDENTALIS; MUSCULUS-SENHOUSSIA; BARNACLE; MOLLUSK; BRYOZOAN; TUBEWORM; OYSTER; POLY VINYL CHLORIDE; PIPE; IMMIGRATION; Concept Codes: ECOLOGY-BIOCLIMATOL; BIOMETEOROL(07504); ECOLOGY-ANIMAL(+07508); ECOLOGY-OCEANOGRAPHY; LIMNOLOGY(+07510); ECOLOGY-OCEANOGRAPHY(+07512); ECOLOGY-AQUATIC WILDLIFE MGMT(+07516); ECOLOGY-WATR RESRCH; FISHERY; BIOL(07517); MOVEMENT(12100); ANIMAL DISTRIBUTION/ZOOGEOGRAPHY(62800); INVERTEB TAXN-ECTOPROCTA(+63522); INVERTEB TAXN-MOLLUSCA(+63526); INVERTEB TAXN-ANNELIDA(+63530); INVERTEB TAXN-CRUSTACEA(+6355-4)

Biosystematic Codes: ECTOPROCTA(57000); MOLLUSCA-UNSPECIFIED(61000); PELECYPODA(61500); POLYCHAETA(65500); CIRRIPEIDIA(75108)

62011391

## GAS LIQUID CHROMATOGRAPHIC HEADSPACE METHOD FOR VINYL CHLORIDE IN VINEGARS AND ALCOHOLIC BEVERAGES

WILLIAMS D T

J ASSOC OFF ANAL CHEM 59 (1). 1976 30-31. Coden: JANCA

Vinyl chloride (VC) is determined in vinegars and alcoholic beverages by GLC headspace analysis. The lower limit of detection is 10 ppb and confirmation by gas chromatography-mass spectrometry, single ion monitoring at m/c 62, is possible at this level. Comparison of the headspace and the direct injection methods for the determination of VC in vinegars and alcoholic beverages showed that the results obtained by the 2 methods were not significantly different ( $P > 0.05$ ). [Apple cider and malt vinegars and gin, martini mix and sherry were taken as representative samples since these liquids were known to have been packaged in polyvinylchloride containers.]

Descriptors: APPLE; CIDER; MALT; GIN; SHERRY; MARTINI MIX; POLY VINYL CHLORIDE; CONTAINERS; SINGLE ION MONITORING; MASS SPECTROMETRY

Concept Codes: MATHEMATIC; BIOL/STATISTIC; METH(04500); RADIATION; BIOL-RADTN; ISOTOP TECH(06504); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL; BIOPHYS TECH(10504); MOVEMENT(12100); FOOD TECH-MALTS, BREWS, FERMENTATION(+13512); FOOD TECH-EVALNS; PHYS, CHEM PROPS(+13530); FOOD TECH-PREP, PROCESSNG, STORAGE(+13532); TOXICOL-GENL/EXP STUDS, METHS(+22501); TOXICOL-FOOD, RESIDS, ADDIT, PRESRV(+22502); NEOPL-SMS/NEOPL AGNTS-CARCINOGENS(+24007); HORTICULT-TEMP ZONE FRUITS, NUTS(53002)

Biosystematic Codes: ROSACEAE(26675)

## MEAT WRAPPERS ASTHMA A CASE STUDY

JOHNSON C J; ANDERSON H W

J OCCUP MED 18 (2). 1976 102-104. Coden: JOCMA

Female meat wrappers developed respiratory symptoms following exposure to fumes produced by cutting plastic films made of polyvinyl chloride with a hot wire. Meat-wrappers' asthma is characterized by symptoms similar to those produced by polymer-fume fever, but the duration of the acute effects appears to be shorter, and the fever is either not present or is not as prominent a feature in meat-wrappers' asthma as in polymer-fume fever. Although allergy has been suggested as a cause for the symptoms of meat-wrappers' asthma, the presence of such powerful irritants as HCl and perhaps trace amounts of phosgene seem to make a better case for direct chemical injury to the respiratory system. Persons who smoke cigarettes apparently experience a synergistic or additive effect with the combination of pyrolysis products of tobacco and plastic.

Descriptors: HUMAN TOBACCO SMOKING; POLY VINYL CHLORIDE; PLASTIC FILM FUMES; ALLERGY; DIRECT CHEMICAL EFFECT; POLYMER FUME FEVER

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BEHAVIOR; BIOL-HUMAN BEHAVIOR(07004); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-HOT(10618); PATHOLOGY-COMPARATIVE(12503); PATHOLOGY-INFLAMMATN, INFLAM DIS(12508); RESPIRATORY SYST-PATHOLOGY(+16006); PSYCHIATRY-ADDICTION(1NC SMOKNG)(+21004); TOXICOL-GENL/EXP STUDS, METHS(+22501); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); TEMPERATURE-GENL, METHS(23001); TEMPERATURE-THERMOPATHOLOGY(23007); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(+34508); ALLERGY(+35500); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); PLANT PHYSIOL-CHEM CONSTITUENTS(51522); AGRONOMY-TOBACCO CROPS(52512)

Biosystematic Codes: SOLANACEAE(26775); HOMINIDAE(86215)

62011363

## PERSONAL ATMOSPHERIC GAS SAMPLER USING THE CRITICAL ORIFICE CONCEPT

WILLIAMS F W; STONE J P; EATON H G

ANAL CHEM 48 (2). 1976 442-445. Coden: ANCHA

A small, light-weight, portable personal atmospheric gas sampler designed for collecting time-integrated air samples was developed [in response to industry's need to monitor and sample atmospheric contaminants in an individual's breathing zone]. An evacuated container equipped with a critical orifice is used to collect the sample rather than a pump. The sampling interval is dictated by the size of the orifice and volume of the sample container. The personal sampler was used to evaluate atmospheres containing the contaminants CO, CH<sub>4</sub>, CO<sub>2</sub>, CF<sub>2</sub>Cl<sub>2</sub>, CFC13, C<sub>2</sub>H<sub>6</sub>, CH<sub>2</sub>.dbd, CHCl<sub>3</sub>, CH<sub>2</sub>.dbd, CCl<sub>2</sub>, C<sub>6</sub>H<sub>14</sub> and C<sub>6</sub>H<sub>6</sub>.

Descriptors: HUMAN CARBON MON OXIDE METHANE CARBON DI OXIDE DI CHLORODIFLUORO METHANE TRI CHLORODIFLUORO METHANE ETHANE VINYL CHLORIDE VINYLIDENE CHLORIDE HEXANE BENZENE

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(10060); BIOPHYS-BIOENGINEERING(+10511); RESPIRATORY SYST-GENL STUD,METHS(16001); ROUTES OF IMMUNIZ,INFECT, THERAP(22100); TOXICOL-ANTIDOTES, PREVENTIVE(+22505); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPL-SMS/NEOPL AGNTS-CARCINOGENS(24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

62009265

## MUTAGENIC AND CARCINOGENIC EFFECTS OF VINYL CHLORIDE

BARTSCH H; MONTESANO R

MUTAT RES 32 (2). 1975 (RECD 1976) 93-114. Coden: MUREA

The carcinogenicity of VCM [vinylchloride monomer] in animals and man and its mutagenic action after metabolic conversion by microsomal enzymes from humans and rodents into electrophilic derivatives further strengthen the establishment of a formal relationship between carcinogenesis and mutagenesis. The screening of a large number of chemicals which are produced on a massive scale and for which a human exposure exists by such mutagenicity assays, in which mammalian and human metabolism are taken into account, would be of great value in the detection of biological hazards. An example of such a chemical is one that is structurally related to VCM 1,1-dichloroethylene (vinylidene chloride), and which is used almost exclusively as a copolymer of VCM in the production of plastic materials. This compound induces point mutation in *Salmonella typhimurium* strains when assayed in the presence of rat or mouse liver fraction in vitro. Its mutagenic activity is higher than that of VCM. Vinylidene chloride is toxic at high concentrations, and it is carcinogenic in rats. Another chemically related substance, 2-chloro-1,3-butadiene (chloroprene), used in the manufacture of synthetic rubber since 1930, was recently suggested as being responsible for an increased incidence of skin and lung cancer

in exposed workers, and its activity to induce point mutation in *S. typhimurium* was demonstrated. The available data indicate that polymerization workers are at a very high risk of angiosarcoma of the liver. Among some 5600 workers currently employed at 36 PVC [polyvinyl chloride] polymerization plants in the U.S.A., 15 cases of angiosarcoma of the liver were reported in 4 of these plants. Nine cases were found in a single plant employing less than 300 workers, and 1 case, a polymerization worker, was exposed to VCM for only 4 yr. Populations at lower levels of exposure are also at risk, as shown by the observation of angiosarcoma of the liver in workers employed in PVC-fabricating plants. The occurrence of few cases of angiosarcoma of the liver among nonoccupationally exposed people and a clustering of cases in a heavily industrialized area could be connected with factory discharge of VCM in the air. Another source of human exposure to VCM is food and beverages packed in PVC containers, since VCM migrates into these commodities. The daily human oral intake was estimated to be less than 100 µg VCM. Since scientific knowledge of chemical carcinogenesis cannot allow the establishment of a safe exposure level for any carcinogen, every effort should be made to prevent exposure and minimize the risk.

Descriptors: USA HUMAN MAMMALIAN METABOLISM RAT MOUSE LIVER FRACTION SALMONELLA-TYPHIMURIUM MUTATIONS VINYLIDENE CHLORIDE CHLOROPRENE CARCINOGENS OCCUPATIONAL EXPOSURE AIR POLLUTION FOOD CONTAMINATION LIVER ANGIO SARCOMAS SKIN LUNG CANCERS EPIDEMIOLOGY

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); MOVEMENT(12100); METABOLISM-GENL STUD,METAB PATHW(13002); FOOD TECH-GENL STUDS,METHS(+13502); FOOD TECH-SYNTH,SUPPL,ENRICH FDS(13534); DIGESTIVE SYST-PHYSIOL,BIOCHEM(14004); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+1450-8); RESPIRATORY SYST-PATHOLOGY(+16006); BONE,JNTS,FASC,CONN/A-DIP-PATHOL(18006); INTEGUMENT SYST-PATHOLOGY(+18506); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); ROUTES OF IMMUNIZ,INFECT, THERAP(22100); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-BIOCHEM(2-4006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); BACTERIAL AND VIRAL GENETICS(+31500); MED/CLIN MICROBIOL-BACTERIOLOGY(+3600-2); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(+37054)

Biosystematic Codes: EUBACTERIALES(07200); MAMMALIA-UNSPECIFIED AND EXTINCT(85700); HOMINIDAE(86215); MURIDAE(86375)

62009247

## ANGIO SARCOMA OF THE LIVER IN VINYL CHLORIDE POLY VINYL CHLORIDE WORKERS

LLOYD J W

J OCCUP MED 16 (12). 1974 809. Coden: JOCMA

Cases were reported to date from 6 countries. Sixteen of these were from the USA. Although cases were observed from 4 distinct work areas, the majority (81%) were formerly employed as reactor cleaners at plants where vinyl chloride was transformed into polyvinyl chloride. Fourteen confirmed cases of angiosarcoma of the liver were reported from 4 polymerization plants in the USA. While an exact estimate of the risk for polymerization workers must await completion of follow-up, it is already apparent that the disease rate for this group is extremely high. The total work force currently employed at USA polymerization plants is about 5000. No adequate data on prior vinyl chloride exposure levels of polymerization workers is available, but past exposures may have frequently exceeded the TLV [threshold limit value] of 500 ppm. For the polymerization workers the median age at diagnosis of angiosarcoma of the liver was 45 yr, with a range from 36-71 yr, and the median interval from 1st exposure to diagnosis was 20 yr, with a range from 11-30 yr. Too few cases were reported from the other work areas to provide stable estimates of age and latency.

Descriptors: USA HUMAN CARCINOGENS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-D-IAGNOSTIC(12504); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BONE,JNTS,FASC,CONN/ADIP-GENL(18001); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-DIAGNS METH(24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); GERONTOLOGY(24500); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIROH HEALTH-OCCUPATNL HEALTH(+37013); EPIDEMIOL-ORGANIC DIS,NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

62007898

## HYGIENIC ASPECTS OF THE USE IN FOOD INDUSTRY OF THICKENING PASTES ON THE BASIS OF POLY VINYL CHLORIDE PLASTISOLS/

TVERSKAYA M YA; SAFRIS E S; KATAEVA S E

GIG SANIT . (11). 1975 (RECD 1976) 28-32. Coden: GISAA

The migration order of individual components and their combinations were studied from plates made of 20 different kinds of plastisols. Hygienic recommendations on their safe use in the food industry were worked out.

Concept Codes: BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(+10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(2100); FOOD TECH-EVALNS PHYS,CHEM PROPS(+13530); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); PUB HEALTH-ADMINISTR,STATISTICS(37010)

62005600

## HYGIENIC EVALUATION OF VARNISHES INTENDED FOR PAINTING TOYS

MAZUR H

ROCZ PANSTW ZAKL HIG 26 (2). 1975 145-151. Coden: RPZHA

Two methods of determining the durability of varnish coating of toys made of polyvinyl chloride or wood for infants and children were compared. The method used until now is more universal than the West German method according to [the German industrial standard] DIN 53 160 since it takes into account all aspects of toy utilization by the child. The technology of production and method of coating toys with varnishes which do not comply with the requirements of this method should be corrected and the toys should be examined again by regional sanitary epidemiological stations.

Descriptors: CHILD WOOD POLY VINYL CHLORIDE

Concept Codes: GENL BIOL-INSTITUT,ADMIN,LEGISLN(00508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BEHAVIOR BIOL-HUMAN BEHAVIOR(07004); BIOCHEM STUD-GENERAL(10060); PSYCHIATRY-GEN,-MED PSYCHL/SOCIOL(21001); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(22506); PEDIATRICS(+25000); FORESTRY AND FOREST PRODUCTS(53500)

Biosystematic Codes: TRACHEOPHYTA(22000); HOMINIDAE(86215)

62005509

## RESPONSES OF ALVEOLAR MACROPHAGE TO METALLIC FUME

KOSHI K; HOMMA K; SAKABE H

IND HEALTH 13 (1-2). 1975 37-49. Coden: INHEA

Alveolar macrophages were obtained by lavage from lungs of rats exposed to inhalation of particles of Sb, Pb, Cd, CaCO<sub>3</sub> or polyvinylchloride (PVC) and their numbers and <sup>14</sup>C-leucine incorporating activity were studied. The number of free cells obtained from the lung decreased remarkably after exposure to Sb or Cd fumes, while with exposure to Pb fumes, CaCO<sub>3</sub> or PVC particles the number of lavaged cells did not change from that of controls breathing air. There was a linear correlation 1 h after inhalation between the total <sup>14</sup>C-leucine incorporation in all the cells and the number of lavaged cells in the experimental groups.

Descriptors: RAT ANTIMONY LEAD CADMIUM CALCIUM CARBONATE POLY VINYL CHLORIDE LEUCINE UPTAKE LUNG LAVAGE

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); RADIATION BIOL-RADTN,ISOTDP TECH(06504); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); MINERALS(100-69); METABOLISM-GENL STUD,METAB PATHW(13002); MINERALS(\*13010); METABOLISM-PROTNS,PEPTDS,AM ACDS(13012); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY FLDS-LYMPHAT TISS,RES(\*15008); RESPIRATORY SYST-GENL STUD,METHS(16001); RESPIRATORY SYST-PHYSIOL,BIOCHEM(\*16004); RESPIRATORY SYST-PATHOLOGY(16006); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: MURIDAE(86375)

62005493

## OCCUPATIONAL DISEASES IN CONNECTION WITH THE MANUFACTURE OF PLASTIC BOTTLES IN POLY VINYL CHLORIDE PART 2 INTERVENTIONS IN FACTORIES

DUPORT J; ANDLAUER P; GATTELET M; CHALABREYSSE J; ARCHIMBAUD M; TEULON F; BERTRAND R; CIOLELLA A; MONCELON B

ARCH MAL PROF MED TRAV SECUR SOC 36 (4-5). 1975 233-241. Coden: AMPMA

The hypothesis that aromatic hydrocarbons (benzene, toluene, xylene) might be implicated in [human] intoxications was investigated but could not be retained. These hydrocarbons were not revealed in workplace air even in trace concentrations. A thermal degradation study of vinyl compounds showed that at extrusion temperatures there was no hydrocarbon formation. Aromatic hydrocarbons were not revealed in biological media with one exception: urinary hippuric acid. Investigations were then directed towards the only product detected in the air at relatively high concentrations: alpha-phenylindole.

Descriptors: HUMAN URINARY HIPPURIC-ACID ALPHA PHENYL INDOLE

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); EXTERN EFF-HOT(10618); PATHOLOGY-GENERAL STUDIES(\*12502); METABOLISM-PROTNS,PEPTDS-

AM ACDS(13012); URIN SYST/EXT SECR-PHYSL,BIOCHEM(15504); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); TEMPERATURE-GENL,METHS(23001); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)  
Biosystematic Codes: HOMINIDAE(86215)

62005492

## OCCUPATIONAL DISEASES IN CONNECTION WITH THE MANUFACTURE OF PLASTIC BOTTLES IN POLY VINYL CHLORIDE PART 1 OBSERVATIONS IN FACTORIES

DUPORT J; ANDLAUER P; GATTELET M; CHALABREYSSE J; ARCHIMBAUD M; TEULON F; BERTRAND R

ARCH MAL PROF MED TRAV SECUR SOC 36 (4-5). 1975 225-232. Coden: AMPMA

The manufacture of polyvinyl chloride bottles causes (human) dermatitis and hematological abnormalities characterized by leukocytosis with relative lymphocytosis. The collecting of fumes must be achieved taking into consideration possible breakdown.

Descriptors: HUMAN HEMATOLOGICAL DISORDERS DERMATITIS LEUKOCYTOSIS LYMPHOCYTOSIS

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY FLDS-BLD,LYM,RES PATH(\*15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(\*15008); INTEGUMENT SYST-PATHOLOGY(\*18506); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

62005486

## HYGIENIC STANDARDIZATION OF OCTYLIC STABILIZERS OF POLY VINYL CHLORIDE IN WATER BODIES

GOLOVANOV O V

GIG SANIT (5). 1975 36-39. Coden: GISAA

The threshold concentrations (TC) of diisobutylmaleatedioctylin (DIBMDP) and ethylenbis(hydroxyethyl)octylpewter (EBTGDP) according to the organoleptic indices of noxiousness amount of to 0.1 mg/kg. Judging by the effect produced on the sanitary regimen of water bodies the TC of DIBMDP equals 0.6 mg/l and that of EBTGDP 0.01 mg/l. The ineffective dose of DIBMDP in a chronic sanitary-toxicologic experiment amounts to 0.001 mg/kg and that of EBTGDP to 0.0001 mg/kg, which is equivalent to their concentrations in water at levels of 0.02 and 0.002 mg/l. These are the recommended maximal permissible concentrations for water bodies. [Experiments were conducted on rats, rabbits and guinea pigs.]

Descriptors: RAT RABBIT GUINEA-PIG THRESHOLD CONCENTRATION MAXIMAL PERMISSIBLE CONCENTRATION

Concept Codes: ECOLOGY-OCEANOGRAPHY, LIMNOLOGY(07510); ECOLOGY-WATER RESRCH, FISHERY BIOL(07517); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-GENERAL STUDIES(12502); TOXICOL-ENVIRONMNT-L, INDUSTR(22506); PUB HEALTH-ADMINISTR, STATISTICS(37010); ENVIRON HEALTH-AIR, WATER, SL POLLN(37015)

Biosystematic Codes: LEPIDIDAE(86040); CAVIIDAE(86300); MURIDAE(86375)

62005463

## HYGIENIC EVALUATION OF VINYLITE FILM INTENDED FOR MAKING VISUAL AIDS

KHRUSTALEVA V A; OSOKINA S K; BELYAVSKAYA V I

GIG SANIT (7). 1975 116-117. Coden: GISAA

The vinylite film Plastkart is recommended for wide use in making geographic maps and other visual aids for schools. Its volatile components vinyl acetate, vinyl chloride and dioctyl phthalate were not found in the air of rooms 10 and 30 days, 6 mo. and 1 yr after manufacture of visual aids from this film.

Descriptors: VINYL ACETATE VINYL CHLORIDE DI OCTYL PHTHALATE

Concept Codes: GENL BIOL-TXTRKS, EDUCATN, AUD-VIS(00514); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); SENSE ORGANS-GENL STUDS, METHS(20001); TOXICOL-ENVIRONMNTL, INDUSTR(22506); ENVIRON HEALTH-AIR, WATER, SL POLLN(37015)

62003103

## PHARMACODYNAMICS AND UPTAKE OF VINYL CHLORIDE MONOMER ADMINISTERED BY VARIOUS ROUTES TO RATS

WITHEY J R

J TOX ENVIRON HEALTH 1 (3). 1976 381-394. Coden: JTEHD

Finding at least 2-3 ppm and occasionally as much as 10 ppm

ppm of vinyl chloride monomer in a wide range of foodstuffs prompted concern for a possible human health hazard. The recognition of vinyl chloride as a carcinogen to humans in April, 1974, following the discovery of angiosarcoma as the cause of death in at least 25 workers who were engaged in the manufacture of polyvinyl chloride, enhanced this concern with respect to the presence of vinyl chloride monomer in foods. To assess the hazard presented by the oral ingestion of vinyl chloride monomer, rats that were surgically prepared with an indwelling jugular cannula were dosed by intragastric intubation with aqueous solutions containing up to 2.0 mg/ml vinyl chloride. Time-concentration curves were obtained from sequential samples of blood. The uptake of vinyl chloride by this route was extremely rapid. Peak concentrations were achieved less than 10 min after administration of the dose. Elimination from the blood compartment appeared to be biexponential. Studies with the same animal model in a single restraint cage that allowed a head only exposure to concentrations of vinyl chloride up to 7000 ppm in the gas phase showed a similar rapid uptake followed by a plateau blood concentration during several hours of exposure. On removal from the vinyl chloride atmosphere, blood levels fell rapidly to barely detectable concentrations after 2 h. The precise kinetic coefficients that describe the distribution and elimination rates of vinyl chloride from the blood compartment were also determined from the blood concentration data after the administration of an i.v. dose of aqueous or vegetable oil solution.

Descriptors: HUMAN VEGETABLE OIL SOLUTION CARCINOGEN OCCUPATIONAL EXPOSURE FOOD CONTAMINATION ANGIO SARCOMA BLOOD LEVEL

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(10066); BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-MOLECUL PROP, MACROMOLEC(10506); ANATOMY/HISTOL-EXPERIMENTAL(11104); CHORDATE BODY REGNS-HEAD(11304); PATHOLOGY-NECROSIS(12510); METABOLISM-GENL STUD, METAB PATHW(13002); FOOD TECH-GENL STUDS, METHS(13502); DIGESTIVE SYST-GENL STUDS, METHS(14001); CARDIOVASC SYST-GENL STUDS, METHS(14501); CARDIOVASC SYST-BLD VESS PATHOL(14508); BLOOD/BODY FLDS-BLOOD, LYMPH STUD(15002); BONE, JNTS, FASC, CONN/ADIP-PATHOL(18006); DENTAL/ORAL BIOL-GENL STUD, METHS(19001); ROUTES OF IMMUNIZ, INFECT, THERAP(22100); TOXICOL-GENL/EXP STUDS, METHS(22501); TOXICOL-FOOD, RESIDS, ADD-IT, PRESRV(22502); TOXICOL-ENVIRONMNTL, INDUSTR(22506); NEOPL-SMS/NEOPL AGNTS-BIOCHEM(24006); NEOPLSMS/NEOPL AGNTS-CARCINO-GENS(24007); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); PLANT PHYSIOL-CHEM CONSTITUENTS(51522); AGRONOMY-OIL CROPS(52514); HORTICULT-VEGETABLES(53008)

Biosystematic Codes: PLANTAE-UNSPECIFIED(11000); HOMINIDAE(86215); MURIDAE(86375)

61069791

## HYGIENIC REGULATION OF THE USE OF SOME STABILIZERS IN FOOD BRANDS OF POLY VINYL CHLORIDE COMPOUNDS

TVERSKAYA M YA

GIG SANIT (8). 1975 26-28. Coden: GISAA

Descriptors: TOXICITY

Concept Codes: GENL BIOL-INSTITUT, ADMIN, LEGISLN(00508);  
 BIOCHEM STUD-GENERAL(10060); FOOD TECH-PREP, PROCESSNG, STORAGE-  
 (\*13532); TOXICOL-FOOD, RESIDS, ADDIT, PRESRV(\*22502)

61069767

## CONFIRMATION OF VINYL CHLORIDE IN FOODS BY CONVERSION TO 1 CHLORO-1-2 DI BROMO ETHANE

WILLIAMS D T

J ASSOC OFF ANAL CHEM 59 (1). 1976 32-34. Coden: JANCA

Descriptors: PEANUT OIL VINEGAR SHERRY CARCINOGEN POLY VINYL  
 CHLORIDE PACKAGING ELECTRON CAPTURE DETECTOR GAS LIQUID  
 CHROMATOGRAPHY

Concept Codes: BIOCHEM METH-GENERAL(\*10050); BIOCHEM  
 STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504);  
 MOVEMENT(12100); FOOD TECH-MALTS, BREWS, FERMENTATN(\*13512);  
 FOOD TECH-FATS, OILS(\*13514); FOOD TECH-EVALNS PHYS, CHEM  
 PROPS(\*13530); FOOD TECH-PREP, PROCESSNG, STORAGE(\*13532);  
 TOXICOL-GENL/EXP STUDS, METHS(\*22501); TOXICOL-FOOD, RESIDS, ADD-  
 IT, PRESRV(\*22502); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007);  
 AGRONOMY-OIL CROPS(52514)

Biosystematic Codes: LEGUMINOSAE(26260)

61069728

## RESPIRATORY TRACT ILLNESS IN MEAT WRAPPERS

FALK H; PORTNOY B

JAMA (J AM MED ASSOC) 235 (9). 1976 915-917. Coden:

JAMAA

Descriptors: HUMAN HOUSTON TEXAS USA POLY VINYL CHLORIDE  
 SMOKING ASTHMA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BEHAVIOR  
 BIOL-HUMAN BEHAVIOR(07004); BIOCHEM-GASES(10012); BIOCHEM  
 STUD-GENERAL(10060); EXTERN EFF-HOT(10618); PATHOLOGY-COMPARA-  
 TIVE(12503); PATHOLOGY-INFLAMMATN, INFLAM DIS(12508); RESPIRAT-  
 ORY SYST-PATHOLOGY(\*16006); PSYCHIATRY-ADDICTION(1NC SMOKNG)(-  
 \*21004); TOXICOL-GENL/EXP STUDS, METHS(\*22501); TOXICOL-ENVIRO-  
 NMNTL, INDUSTR(\*22506); TEMPERATURE-GENL, METHS(23001); IMMUNOL-  
 /IMMUNOCHEM-IMMUNOPATHOL(34508); ALLERGY(\*35500); ENVIRON  
 HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR, WATR, SL  
 POLLN(\*37015); PLANT PHYSIOL-CHEM CONSTITUENTS(51522)

Biosystematic Codes: PLANTAE-UNSPECIFIED(11000); HOMINIDAE(-  
 86215)

61069301

## EXPERIENCE IN ASSESSING HYGIENIC AND ECONOMIC EFFECTS OF HEALTH MEASURES AIMED AT IMPROVING WORKING CONDITIONS IN THE PRODUCTION OF PLASTICIZED POLY VINYL CHLORIDE FILMS

GORYACHKOVSKII V S

GIG TR PROF ZABOL (8). 1975 4-8. Coden: GTPZA

Descriptors: HUMAN AIR CONTAMINATION

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL  
 BIOL/HUMAN ECOLOGY(05500); ECOLOGY-BIOCLIMATOL, BIOMETEOROL(07-  
 504); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060);  
 PATHOLOGY-GENERAL STUDIES(12502); TOXICOL-ENVIRONMNTL, INDUSTR-  
 (\*22506); PUB HEALTH-ADMINISTR, STATISTICS(\*37010); ENVIRON  
 HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR, WATR, SL  
 POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

61068583

## INSULIN ADSORBANCE TO POLY VINYL CHLORIDE SURFACES WITH IMPLICATIONS FOR CONSTANT INFUSION THERAPY

PETERSON L; CALDWELL J; HOFFMAN J

DIABETES 25 (1). 1976 72-76. Coden: DIAEA

Descriptors: HUMAN SERUM ALBUMIN HYPER GLYCEMIA

Concept Codes: RADIATION BIOL-RADTN, ISOTOP TECH(06504);  
 BIOCHEM METH-PROTNS, PEPTDS, AM AC(10054); BIOCHEM STUD-GENERAL-  
 (10060); BIOCHEM STUD-PROTEINS, PEPTIDES, AMINO ACD(10064);  
 BIOCHEM STUD-CARBOHYDR. (10068); BIOPHYS-MOLECUL PROP, MACROMOL-  
 EC(\*10506); BIOPHYS-BIOENGINEERING(10511); PATHOLOGY-THERAPY(-  
 12512); METABOLISM-CARBOHYDRATES(\*13004); METABOLISM-PROTNS, P-  
 EPTDS, AM ACDS(\*13012); METABOLISM-METABOLIC DISORDERS(\*13020);  
 CARDIOVASC SYST-GENL STUDS, METHS(\*14501); BLOOD/BODY  
 FLDS-BLOOD, LYMPH STUD(\*15002); ENDOCRINE SYST-PANCREAS(\*17008)  
 ; PHARMACOL-CLINICAL PHARMACOL(22005); PHARMACOL-ENDOCRINE  
 SYST(\*22016); ROUTES OF IMMUNIZ, INFECT, THERAP(\*22100)

Biosystematic Codes: HOMINIDAE(86215)

61067741

ANGIOGRAPHIC AND RADIO NUCLIDE CHARACTERISTICS OF HEPATIC  
ANGIO SARCOMA FOUND IN VINYL CHLORIDE WORKERS

WHELAN J G JR; CREECH J L; TAMBURRO C H

RADIOLOGY 118 (3). 1976 549-557. Coden: RADLA

Descriptors: HUMAN CARCINOGEN SCANNING WEDGED HEPATIC  
VENOGRAPHY

Concept Codes: PHOTOGRAPHY-METHS, MATLS, APPARAT(01012);  
SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION BIOL-RADTN, ISOTOP  
TECH(+06504); BIOCHEM STUD-GENERAL(10060); MINERALS(10069);  
BIOPHYS-GENERAL BIOPHYS TECH(10504); ANATOMY/HISTOL-RADIOLOGI-  
C(+11106); ANATOMY/HISTOL-REGEN, TRANSPLANT(11107); PATHOLOGY--  
DIAGNOSTIC(+12504); DIGESTIVE SYST-GENL STUDS, METHS(14001);  
DIGESTIVE SYST-PHYSIOL, BIOCHEM(14004); DIGESTIVE SYST-PATHOLO-  
GY(+14006); CARDIOVASC SYST-GENL STUDS, METHS(14501);  
CARDIOVASC SYST-PHYSIOL, BIOCHEM(14504); CARDIOVASC SYST-BLD  
VESS PATHOL(+14508); BLOOD/BODY FLDS-BLD, LYM, RES PATH(15006);  
BLOOD/BODY FLDS-LYMPHAT TISS, RES(15008); BONE, JNTS, FASC, CONN/-  
ADIP-GENL(18001); BONE, JNTS, FASC, CONN/ADIP-PATHOL(18006); TOX-  
ICOL-ENVIRONMNTL, INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-DIAGNS  
METH(+24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007);  
ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

61067730

CHROMATOGRAPHIC DETERMINATION OF VINYL CHLORIDE IN TOBACCO  
SMOKE

HOFFMANN D; PATRIANAKOS C; BRUNNEMANN K D; GORI G B

ANAL CHEM 48 (1). 1976 47-50. Coden: ANCHA

Descriptors: HUMAN MARIHUANA CIGARETTE ENVIRONMENTAL  
POLLUTION CARCINOGEN CHARCOAL TRAPPING COLUMN CHROMATOGRAPHY  
GAS LIQUID CHROMATOGRAPHY ELECTRON CAPTURE DETECTOR

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BEHAVIOR  
BIOL-HUMAN BEHAVIOR(07004); BIOCHEM METH-GENERAL(+10050);  
BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS  
TECH(10504); EXTERN EFF-HOT(10618); MOVEMENT(12100);  
RESPIRATORY SYST-PHYSIOL, BIOCHEM(16004); PSYCHIATRY-ADDICTION-  
(INC SMOKNG)(+21004); PHARMACOL-NEUROPHARMACOLOGY(+22024);  
PHARMACOL-PSYCHOPHARMACOLOGY(22026); TOXICOL-GENL/EXP STUDS, M-  
ETHS(+22501); TOXICOL-PHARMACOLOGICAL(+22504); TOXICOL-ENVIRO-  
NMNTL, INDUSTR(+22506); TEMPERATURE-GENL, METHS(23001); NEOPLSM-  
S/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-AIR, WATR, SL  
POLLN(+37015); PLANT PHYSIOL-CHEM CONSTITUENTS(51522);  
AGRONOMY-TOBACCO CROPS(52512); PHARMACOGNOSY/PHARMACEUT  
BOTANY(54000)

Biosystematic Codes: CANNABIDACEAE(25738); SOLANACEAE(26775);  
HOMINIDAE(86215)

KALLSKOG D; WOLGAST M

ACTA PHYSIOL SCAND 95 (4). 1975 (RECD 1976) 364-372.

Coden: APSCA

Descriptors: RAT LYMPH FLOW PROTEIN FLOW MICROSPHERE  
TECHNIQUE PERI TUBULAR CAPILLARY PRESSURE POLY VINYL CHLORIDE  
CATHETER

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
STUD-PROTEINS, PEPTIDES, AMINO ACD(10064); BIOPHYS-GENERAL  
STUDIES(+10502); BIOPHYS-GENERAL BIOPHYS TECH(10504);  
MOVEMENT(12100); METABOLISM-PROTNS, PEPTDS, AM ACDS(+13012);  
CARDIOVASC SYST-GENL STUDS, METHS(+14501); CARDIOVASC  
SYST-PHYSIOL, BIOCHEM(+14504); BLOOD/BODY FLDS-BLOOD, LYM-  
PHAT(+15002); BLOOD/BODY FLDS-LYMPHAT TISS, RES(+15008); URIN  
SYST/EXT SECR-PHYSIOL, BIOCHEM(+15504)

Biosystematic Codes: MURIDAE(86375)

610650

EFFECT OF ELEVATED INTERSTITIAL PRESSURE ON THE RENAL  
CORTICAL HEMODYNAMICS

61063904

TOXICITY OF ORGANO TIN COMPOUNDS PART 1 ATROPHY OF THYMUS AND THYMUS DEPENDENT LYMPHOID TISSUE IN RATS FED DI-N OCTYL TIN DI CHLORIDE

SEINEN W; WILLEMS M I

TOXICOL APPL PHARMACOL 35 (1). 1976 63-75. Coden: TXAPA

Descriptors: HUMAN FOOD POLY VINYL CHLORIDE STABILIZATION GROWTH RETARDATION DECREASED FOOD EFFICIENCY SERUM ALKALINE PHOSPHATASE KIDNEY LIVER LYMPHOCYTE DEPLETION ADRENALECTOMY STRESS GLUCO CORTICOID RELEASE BONE MARROW SPLEEN LYMPH NODES HISTOLOGY

Concept Codes: MICROSCOPY-HISTOL.HISTOCHEM TECH(01056); CYTOLOGY/CYTOCHEM-ANIMAL(02506); CLIN BIOCHEM-GENL STUDIES(10-006); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOCHEM STUD-STEROLS,STEROIDS(10067); MINERALS(10-069); ENZYMES-GEN,COMPAR STUD,COENZYMES(10802); ENZYMES-PHYSIOLOGICAL STUDIES(10808); ANATOMY/HISTOL-EXPERIMENTAL(11104); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108); PHYSIOLOGY-STRESS(12008); PATHOLOGY-COMPARATIVE(12503); PATHOLOGY-NECROSIS(12510); METABOLISM-STEROLS,STEROIDS(13008); NUTRITION-MALNUTRITION,OBESITY(13203); NUTRITION-MINERALS(13206); FOOD TECH-GENL STUDS,METHS(+13502); FOOD TECH-EVALNS PHYS,CHEM PROPS(+13530); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); DIGESTIVE SYST-PHYSIOL,BIOCHEM(14004); BLOOD/BODY FLDS-BLOOD,-LYMPH STUD(15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); URIN SYST/EXT SECR-PHYSL,BIOCHEM(15504); ENDOCRINE SYST-ADRENALS(17004); ENDOCRINE SYST-THYMUS(+17016); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); DEVELOPMNTL BIOL-GEN MORPHGENSIS(25508); IN VITRO STUDS-CELLULR,SUBCELL(32600); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(34508); PUB HEALTH-ADMINISTR,-STATISTICS(37010)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

61063361

MONITORING PERSONNEL EXPOSURE TO VINYL CHLORIDE VINYLIDENE CHLORIDE AND METHYL CHLORIDE IN AN INDUSTRIAL WORK ENVIRONMENT SEVERS L W; SKORY L K

AM IND HYG ASSOC J 36 (9). 1975 669-691. Coden: AIIHAA

Descriptors: HUMAN OCCUPATIONAL HEALTH ACTIVATED CARBON DESORPTION

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(10504); EXTERN EFF-COLD(10616); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TEMPERATURE-GENL,METHS(23001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

61063316

IMPROVED METHODS FOR SAMPLING AND ANALYSIS OF VINYL CHLORIDE LAO R C; THOMAS R S; MONKMAN J L

AM IND HYG ASSOC J 37 (1). 1976 1-7. Coden: AIIHAA

Descriptors: AIR POLLUTION OCCUPATIONAL HEALTH COMPUTER GAS CHROMATOGRAPHY

Concept Codes: GENL BIOL-INFRMTN,DOCU,COMP APPL(00530); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

61058235

HEPATIC DRUG METABOLISM AND ADVERSE HEPATIC DRUG REACTIONS

SCHAFFNER F

VET PATHOL 12 (2). 1975 145-156. Coden: VTPHA

Descriptors: CHILD HUMAN WORKERS VINYL CHLORIDE CARCINOGEN VIRAL HEPATITIS CHOLESTASIS JAUNICE ACETAMINOPHEN METHOTREXATE OXYPHENISATIN ALPHA METHYL DOPA ISONIAZID ASPIRIN CARBON TETRA CHLORIDE IMMUNOLOGIC INJURY CELL INJURY MICROSMAL ENZYME SYSTEM PSORIASIS LEUKEMIA

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-VITAMINS(10063); BIOCHEM STUD-PROTEINS,PEPTIDES,-AMINO ACD(10064); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); BIOPHYS-MEMBRANE PHENOMENA(10508); ENZYMES-PHYSIOLOGICAL STUDIES(10808); PATHOLOGY-COMPARATIVE(12503); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508); METABOLISM-GENL STUD,METAB PATHW(+13002); DIGESTIVE SYST-PHYSIOL,BIOCHEM(+14004); DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLDS-BLD,LYM,RES PATH(15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); INTEGUMENT SYST-PATHOLOGY(18506); PHARMACOL-GENERAL STUDIES(+22002); PHARMACOL-DRUG METAB,METAB STIMU(+22003); PHARMACOL-CLINICAL PHARMACOL(22005); PHARMACOL-BLOOD,HEMATO AGENTS(22008); PHARMACOL-CARDIOVASC SYST(22010); PHARMACOL-DIGESTIVE SYST(22014); PHARMACOL-INTEGUMENT,DENTAL/ORAL(22020); PHARMACOL-NEUROPHARMACOLOGY(22024); TOXICOL-GENL/EXP STUDS,METHS(22501); TOXICOL-PHARMACOLOGICAL(+22504); TOXICOL-ENVIRONMNTL,INDUSTR(22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); NEOPLSMS/NEOPL AGNTS-THERAP,AGNT(+24008); NEOPLSMS/NEOPL AGNTS-BLOOD,RES(24010); PEDIATRICS(25000); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(34508); MED/CLIN MICROBIOL-VIROLOGY(36006); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015); CHEMOTHERAPY-GEN STUD,METH,METAB(+38502)

Biosystematic Codes: ANIMAL VIRUSES(03200); HOMINIDAE(86215)

61058125

## A SIMPLE SENSITIVE DETERMINATION AND IDENTIFICATION OF VINYL CHLORIDE BY GAS CHROMATOGRAPHY WITH A HALL DETECTOR

ERNST G F; VAN LIEROP J B H

J CHROMATOGR 109 (2). 1975 439-440. Coden: JOCRA

Descriptors: HUMAN FOOD PRODUCTS WINE CARCINOGEN NETHERLANDS PACKAGING MATERIALS

Concept Codes: GENL BIOL-INSTITUT, ADMIN, LEGISLN(00508);  
 BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060);  
 BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); FOOD  
 TECH-GENL STUDS, METHS(+13502); FOOD TECH-MALTS, BREWS, FERMENTA-  
 TN(+13512); FOOD TECH-EVALNS PHYS, CHEM PROPS(+13530); FOOD  
 TECH-PREP, PROCESSNG, STORAGE(+13532);

TOXICOL-FOOD, RESIDS, ADDIT, PRESRV(+22502); NEOPLSMS/NEOPL AGNT-  
 S-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR, STATISTICS(37010)

Biosystematic Codes: HOMINIDAE(86215)

61057676

## MORTALITY STUDY OF WORKERS IN A POLY VINYL CHLORIDE PRODUCTION PLANT

DUCK B W; CARTER J T; COOMBS E J

LANCET 2 (7946). 1975 1197-1199. Coden: LANCA

Descriptors: HUMAN OCCUPATIONAL HEALTH LIVER ANGIO SARCOMA MALIGNANT DISEASES

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500);  
 BIOCHEM STUD-GENERAL(10060); PATHOLOGY-NECROSIS(+12510);  
 DIGESTIVE SYST-PATHOLOGY(+14006); TOXICOL-ENVIRONMNTL, INDUSTR-  
 (+22506); NEOPLSMS/NEOPL AGNTS-PATH, CLINIC(+24004); NEOPLSMS/-  
 NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR, STATIS-  
 TICS(+37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
 EPIDEMIOL-ORGANIC DIS, NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

61052362

## OBSERVATIONS ON THE ORAL ADMINISTRATION AND TOXICITY OF VINYL CHLORIDE IN RATS

FERON V J; SPEEK A J; WILLEMS M I; VAN BATTUM D; DE GROOT A P

FOOD COSMET TOXICOL 13 (6). 1975 (RECD 1976) 633-638. Coden: FCTXA

Descriptors: SOYBEAN OIL POLY VINYL CHLORIDE CARCINOGENS HISTOLOGY ENZYME HISTOCHEMISTRY ELECTRON MICROSCOPY

Concept Codes: MICROSCOPY-HISTOL, HISTOCHEM TECH(01056);  
 ELECTRON MICROSCOPY(01058); MATHEMATIC BIOL/STATISTIC  
 METH(04500); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060);  
 BIOCHEM STUD-PROTEINS, PEPTIDES, AMINO ACD(10064); BIOCHEM  
 STUD-LIPIDS(10066); ENZYMES-METHODS(10804); ANATOMY/HISTOL-MI-  
 CRO, ULTRAMICRSC(11108); MOVEMENT(12100); FOOD TECH-GENL  
 STUDS, METHS(+13502); FOOD TECH-EVALNS PHYS, CHEM PROPS(+13530);  
 FOOD TECH-PREP, PROCESSNG, STORAGE(+13532); DIGESTIVE SYST-GENL  
 STUDS, METHS(14001); DIGESTIVE SYST-PHYSIOL, BIOCHEM(14004);

DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLDS-BLOOD, LYMPH  
 STUD(15002); RESPIRATORY SYST-PHYSIOL, BIOCHEM(16004); DENTAL/-  
 DRAL BIOL-GENL STUD, METHS(19001); ROUTES OF IMMUNIZ, INFECT, TH-  
 ERAP(22100); TOXICOL-FOOD, RESIDS, ADDIT, PRESRV(+22502); NEOPLS-  
 MS/NEOPL AGNTS-CARCINOGENS(+24007); AGRONOMY-OIL CROPS(52514)  
 Biosystematic Codes: LEGUMINOSAE(26260); MURIDAE(86375)

61052340

## POLY VINYL CHLORIDE TOXICITY IN FIRES HYDROGEN CHLORIDE TOXICITY IN FIRE FIGHTERS

DYER R F; ESCH V H

JAMA (J AM MED ASSOC) 235 (4). 1976 393-397. Coden: JAMAA

Descriptors: HUMAN OCCUPATIONAL EXPOSURE

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500);  
 BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(10060); EXTERN  
 EFF-HOT(+10618); PATHOLOGY-GENERAL STUDIES(+12502); PATHOLOGY-  
 NECROSIS(12510); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); TEMPER-  
 ATURE-GENL, METHS(23001); TEMPERATURE-THERMOPATHOLOGY(+23007);  
 ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR, W-  
 ATR, SL POLLN(+37015); EPIDEMIOL-ORGANIC DIS, NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

61051755

## TRACE ANALYSIS OF VINYL CHLORIDE IN POLY VINYL CHLORIDE AND IN THE ATMOSPHERE

RAVEY M; KLOPSTOCK J

J CHROMATOGR SCI 13 (11). 1975 552-553. Coden: JCHSB

Descriptors: AIR POLLUTION GAS CHROMATOGRAPHY

Concept Codes: ECOLOGY-BIOCLIMATOL, BIOMETEOROL(07504);  
 BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050); BIOCHEM  
 STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504);  
 MOVEMENT(12100); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); ENVIRON  
 HEALTH-AIR, WATR, SL POLLN(+37015)

61049919

## LIVER MICROSOME MEDIATED FORMATION OF ALKYLATING AGENTS FROM VINYL BROMIDE AND VINYL CHLORIDE

BARBIN A; BRESIL H; CROISY A; JACQUIGNON P; MALAVEILLE C; MONTESANO R; BARTSCH H

BIOCHEM BIOPHYS RES COMMUN 67 (2). 1975 596-603. Coden: BBRCA

Descriptors: MOUSE CARCINOGENS ADENOSINE SEPHADEX CHROMATOGRAPHY BINDING PRODUCTS

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(10050); BIOCHEM METH-NUCL ACD,PURNS,PYRM(10052); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-CARBOHYDR.(10068); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); METABOLISM-GENL STUD,METAB PATHW(\*13002); METABOLISM-NUCL ACD,PURNS,PYRM(13-014); DIGESTIVE SYST-PHYSIOL,BIOCHEM(\*14004); TOXICOL-GENL/EXP STUDS,METHS(\*22501); NEOPLSMS/NEOPL AGNTS-BIOCHEM(\*24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); IN VITRO STUDS-CELLULR,SUBCELL(32600)

Biosystematic Codes: MURIDAE(86375)

61046427

## VINYL CHLORIDE INDUCED DEACTIVATION OF CYTOCHROME P-450 AND OTHER COMPONENTS OF THE LIVER MIXED FUNCTION OXIDASE SYSTEM AN IN-VIVO STUDY

REYNOLDS E S; MOSLEN M T; SZABO S; JAEGER R J

RES COMMUN CHEM PATHOL PHARMACOL 12 (4). 1975 (RECD 1976) 685-694. Coden: RCOCB

Descriptors: RAT PHENO BARBITAL CENT-DEPRESS-DRUG AROCLOR 1254 POLY CHLORINATED BI PHENYLAMINO ANTIPYRINE ETHYL MORPHINE GLUCOSE 6 PHOSPHATASE CYTOCHROME B-5 NADPH CYTOCHROME C REDUCTASE NADH CYTOCHROME C REDUCTASE

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-PROTEIN-S,PEPTIDES,AMINO ACD(10064); BIOCHEM STUD-PORPHYRINS,BILE PIGM(10065); BIOPHYS-MEMBRANE PHENOMENA(10508); ENZYMES-GEN,C-OMPAR STUD,COENZYMES(\*10802); ENZYMES-PHYSIOLOGICAL STUDIES(\*1-0808); METABOLISM-GENL STUD,METAB PATHW(13002); METABOLISM-PROTNS,PEPTDS,AM ACDS(13012); METABOLISM-PORPHYRINS,BILE PIGMN(13013); DIGESTIVE SYST-PHYSIOL,BIOCHEM(\*14004); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); PHARMACOL-NEUROPHARMACOLOGY(22024); TOXICOL-GENL/EXP STUDS,METHS(\*22501); PLANT PHYSIOL-CHEM CONSTITUENTS(51522); PHARMACOGNOSY/PHARMACEUT BOTANY(54000)

Biosystematic Codes: PAPAVERACEAE(26515); MURIDAE(86375)

BOROS S J; THOMPSON T R; REYNOLDS J W; JARVIS C W; WILLIAMS H J

PEDIATRICS 56 (6). 1975 981-986. Coden: PEDIA  
 Descriptors: HUMAN INFANT NEGATIVE TOXICITY POLY VINYL CHLORIDE VASO SPASM AORTIC PRESSURE TRACINGS AORTOGRAM  
 Concept Codes: PHOTOGRAPHY-METHS,MATLS,APPARAT(01012); MICROSCOPY-HISTOL,HISTOCHEM TECH(01056); RADIATION BIOL-RADTN-,ISOTOP TECH(06504); BIOCHEM STUD-GENERAL(10060); BIOPHYS-BIO-ENGINEERING(\*10511); ANATOMY/HISTOL-RADIOLOGIC(11106); CHORDATE BODY REGNS-EXTREMITIES(11318); PATHOLOGY-COMPARATIVE(12503); PATHOLOGY-NECROSIS(12510); CARDIOVASC SYST-GENL STUDS,METHS(\*14501); BLOOD/BODY FLDS-BLD,LYM,RES PATH(\*15006); REPRODUCT SYST-GENL STUDS,METHS(16501); NERVOUS SYST-PATHOLOGY(20506); TOXICOL-GENL/EXP STUDS,METHS(\*22501); PEDIATRICS(\*2-5000)

Biosystematic Codes: HOMINIDAE(86215)

61046296

## GAS LIQUID CHROMATOGRAPHIC DETERMINATION OF VINYL CHLORIDE IN VINYL CHLORIDE POLYMERS FOOD SIMULATING SOLVENTS AND OTHER SAMPLES

BREIDER C V; DENNISON J L; BROWN M E

J ASSOC OFF ANAL CHEM 58 (6). 1975 1214-1220. Coden: JANCA

Descriptors: VEGETABLE OIL MOUTHWASH BLOOD ANTI COAGULANT SOLUTION ACETIC-ACID ETHANOL HEPTANE TETRA HYDRO FURAN DI METHYL ACETAMIDE FLAME IONIZATION DETECTOR

Concept Codes: BIOCHEM METH-GENERAL(\*10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); FOOD TECH-FRUIT,NUTS,VEGETABLES(13504); FOOD TECH-FATS,OILS(13514); FOOD TECH-EVALNS PHYS,CHEM PROPS(\*1353-0); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); PHARMACOL-BLOOD,HEMATO AGENTS(22-008); PHARMACOL-INTEGUMENT,DENTAL/ORAL(22020); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(\*2-2501); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(\*22502); TOXICOL-PHARMACOLOGICAL(\*22504); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); AGRONOMY-OIL CROPS(52514); HORTICULT-VEGETABLES(53008)

Biosystematic Codes: ANGIOSPERMAE-UNSPECIFIED(25200)

610464

## REDUCED THROMBUS FORMATION WITH SILICONE ELASTOMERE SILASTIC UMBILICAL ARTERY CATHETERS

61046276

## MIGRATION OF PLASTICIZER FROM HEMO DIALYSIS BLOOD TUBING PRELIMINARY REPORT

ONO K; TATSUKAWA R; WAKIMOTO T  
JAMA (J AM MED ASSOC) 234 (9). 1975 948-949. Coden:  
JAMAA

Descriptors: HUMAN D1-2 ETHYLHEXYL PHTHALATE POLY VINYL  
CHLORIDE RENAL FAILURE THERAPY

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL  
BIOPHYS TECH(10504); MOVEMENT(12100); PATHOLOGY-THERAPY(12512)  
; METABOLISM-GENL STUD,METAB PATHW(13002); BLOOD/BODY  
FLDS-GENL STUDS,METHS(+15001); BLOOD/BODY FLDS-BLOOD,LYMPH  
STUD(15002); URIN SYST/EXT SECR-GEN STUD,METH(+15501); URIN  
SYST/EXT SECR-PATHOLOGY(15506); TOXICOL-GENL/EXP STUDS,METHS(-  
\*22501)

Biosystematic Codes: HOMINIDAE(86215)

61046200

GASTRIC FUNCTION IN CHRONIC VINYL CHLORIDE POISONING  
VAISMAN V D; STULOVA E A; GORYACHEVA L A; ZHDANEEVA G S  
GIG TR PROF ZABOL (3). 1975 20-23. Coden: GTPZA

Descriptors: HUMAN GASTRIC SECRETION ACETYL CHOLIN ESTERASE  
NERVOUS SYSTEM HYPOTHALAMUS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO  
ACD(10064); ENZYMES-PHYSIOLOGICAL STUDIES(10808); DIGESTIVE  
SYST-PATHOLOGY(+14006); ENDOCRINE SYST-NEUROENDOCRINOLOG(+170-  
20); NERVOUS SYST-PATHOLOGY(+20506); TOXICOL-ENVIRONMNTL,INDU-  
STR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(24007); ENVIRON  
HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL  
POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215)

61046189

## VINYL CHLORIDE HOW MANY UNKNOWN PROBLEMS

HALEY T J  
J TOXICOL ENVIRON HEALTH 1 (1). 1975 47-73. Coden: JTEHD

Descriptors: HUMAN WORKERS ANIMAL OCCUPATIONAL EXPOSURE  
LIVER MAL FUNCTION ANGIO SARCOMA RAYNAUDS SYNDROME SCLERODERMA  
ACRO OSTEOLYSIS CARCINOGENICITY BIO TRANSFORMATION DIAGNOSIS  
THERAPY

Concept Codes: GENL BIOL-INSTITUT,ADMIN,LEGISLN(00508);  
SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060);  
CHORDATE BODY REGNS-EXTREMITIES(11318); PATHOLOGY-GENERAL  
STUDIES(12502); PATHOLOGY-DIAGNOSTIC(12504); PATHOLOGY-THERAPY  
(12512); METABOLISM-GENL STUD,METAB PATHW(+13002); DIGESTIVE  
SYST-PATHOLOGY(14006); CARDIOVASC SYST-BLD VESS PATHOL(14508);  
BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); BONE,JNTS,FASC,CONN/-  
ADIP-PATHOL(18006); INTEGUMENT SYST-PATHOLOGY(18506); TOXICOL-  
ANTIDOT,PREVENTIVE(22505);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CAR-

CINOGENS(+24007); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(34508); PUB  
HEALTH-ADMINISTR,STATISTICS(+37010); ENVIRON HEALTH-OCCUPATNL  
HEALTH(+37013); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(37054)

Biosystematic Codes: ANIMALIA-UNSPECIFIED(33000); HOMINIDAE-  
(86215)

61046182

OCCUPATIONAL LEAD EXPOSURE IN FINLAND PART 4 THE POLY VINYL  
CHLORIDE PLASTIC INDUSTRY

TOLA S  
SCAND J WORK ENVIRON HEALTH 1 (3). 1975 173-177. Coden:  
SWEID

Descriptors: HUMAN BLOOD URINARY DELTA AMINO LEVULINIC-ACID  
ERYTHROCYTE DELTA AMINO LEVULINIC-ACID DEHYDRATASE HEMO GLOBIN

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); SOCIAL  
BIOL/HUMAN ECOLOGY(05500); CLIN BIOCHEM-GENL STUDIES(10006);  
BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOCHEM  
STUD-PORPHYRINS,BILE PIGM(10065); MINERALS(10069); ENZYMES-PHY-  
SIOLOGICAL STUDIES(10808); MINERALS(13010); METABOLISM-PROTNS-  
PEPTDS,AM ACOS(13012); METABOLISM-PORPHYRINS,BILE PIGMN(1301-  
3); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); BLOOD/BODY  
FLDS-BLOOD CELL STUDS(15004); URIN SYST/EXT SECR-PHYSL,BIOCHE-  
M(15504); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON  
HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL  
POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215)

61046115

## PER CUTANEOUS ABSORPTION OF VINYL CHLORIDE

HEFNER R E JR; WATANABE P G; GEHRING P J  
TOXICOL APPL PHARMACOL 34 (3). 1975 (RECD 1976) 529-532.  
Codon: TXAPA

Descriptors: MACACA-MULATTA HUMAN INDUSTRIAL EXPOSURE LIVER  
DISEASE CARCINOGEN LUNGS RADIOACTIVITY

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION  
BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM STUD-GENERAL(10060);  
CHORDATE BODY REGNS-HEAD(11304); MOVEMENT(12100); METABOLISM-  
GENL STUD,METAB PATHW(+13002); RESPIRATORY SYST-PHYSIOL,BIOCH-  
EM(16004); INTEGUMENT SYST-PHYSIOL,BIOCHEM(+18504); TOXICOL-E-  
NVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(-  
\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON  
HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: CERCOPITHECIDAE(86205); HOMINIDAE(8621-  
5)

61043934

## THE FOOD AND DRUG ADMINISTRATION AND THE VINYL CHLORIDE PROBLEM AN OVERVIEW

SCHAFFNER R M; LOMBARDO P  
J ASSOC OFF ANAL CHEM 58 (6). 1975 1211-1213. Coden:  
JANCA

Descriptors: HUMAN USA LABORATORY ANIMAL CARCINOGEN  
OCCUPATIONAL

Concept Codes: GENL BIOL-INSTITUT, ADMIN, LEGISLN(+00508);  
SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060);  
PATHOLOGY-GENERAL STUDIES(12502); PATHOLOGY-THERAPY(12512);  
FOOD TECH-GENL STUDS, METHS(+13502); RESPIRATORY SYST-PHYSIOL-  
BIOCHEM(16004); DENTAL/ORAL BIOL-GENL STUD, METHS(19001);  
PHARMACOL-GENERAL STUDIES(+22002); PHARMACOL-CLINICAL PHARMAC-  
OL(22005); ROUTES OF IMMUNIZ, INFECT, THERAP(22100);  
TOXICOL-GENL/EXP STUDS, METHS(+22501); TOXICOL-FOOD, RESIDS, ADD-  
IT, PRESRV(+22502); TOXICOL-PHARMACOLOGICAL(+22504); TOXICOL-E-  
NVIRONMNTL, INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+  
24007); LABORATORY ANIMALS-GENL STUDS(28002); ENVIRON  
HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-MISCELL  
STUDS(37019)

Biosystematic Codes: MAMMALIA-UNSPECIFIED AND EXTINCT(85700)  
; HOMINIDAE(86215)

61038691

## THE BIOLOGICAL FATE IN RATS OF VINYL CHLORIDE IN RELATION TO ITS ONCOGENICITY

GREEN T; HATHWAY D E  
CHEM-BIOL INTERACT 11 (6). 1975 545-562. Coden: CBINA  
Descriptors: RAT MAMMAL LUNG KIDNEY EXCRETION CARBON DI  
OXIDE LINKAGE AUTO RADIOGRAPHY S-2 CHLOROETHYL CYSTEINE N  
ACETYL-S-2-CHLOROETHYL CYSTEINE CHLORO ACETIC-ACID THIO DI  
GLYCOLIC-ACID GLUTAMIC-ACID FORMATION FORMALDEHYDE UREA  
FORMATION

Concept Codes: PHOTOGRAPHY-METHS, MATLS, APPARAT(01012);  
MICROSCOPY-HISTOL, HISTOCHEM TECH(01056); RADIATION BIOL-RADTN-  
ISOTOP TECH(06504); BIOCHEM-GASES(10012); BIOCHEM  
METH-GENERAL(10050); BIOCHEM METH-PROTNS, PEPTDS, AM AC(10054);  
BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS, PEPTIDES, A-  
MINO ACD(10064); ANATOMY/HISTOL-MICRO, ULTRAMICRSC(11108);  
CHORDATE BODY REGNS-ABDOMEN(11314); PATHOLOGY-GENERAL  
STUDIES(12502); METABOLISM-GENL STUD, METAB PATHW(+13002);  
METABOLISM-ENERGY, RESPIRATION(+13003);  
METABOLISM-PROTNS, PEPTDS, AM ACDS(+13012); DIGESTIVE SYST-GENL  
STUDS, METHS(14001); CARDIOVASC SYST-GENL STUDS, METHS(14501);  
URIN SYST/EXT SECR-PHYSL, BIOCHEM(+15504); RESPIRATORY  
SYST-PHYSIOL, BIOCHEM(+16004); DENTAL/ORAL BIOL-GENL STUD, METH-  
S(19001); ROUTES OF IMMUNIZ, INFECT, THERAP(22100); TOXICOL-GENL/  
EXP STUDS, METHS(+22501); NEOPLSMS/NEOPL AGNTS-BIOCHEM(+2400-  
6); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007)

Biosystematic Codes: MAMMALIA-UNSPECIFIED AND EXTINCT(85700)  
; MURIDAE(86375)

61034868

## PHARMACOLOGICAL PROPERTIES OF THE PLASTICIZER ACETYL-N-TRIBUTYL CITRATE AND ITS EXTRACTION FROM POLY VINYL CHLORIDE TUBING

HOLLINGSWORTH M  
J BIOMED MATER RES 9 (6). 1975 687-697. Coden: JBMRB  
Descriptors: GUINEA-PIG ILEUM TOXICITY TRANSFUSION  
Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL  
BIOPHYS TECH(10504); BIOPHYS-BIOENGINEERING(+10511); MOVEMENT-  
(12100); DIGESTIVE SYST-PHYSIOL, BIOCHEM(14004); BLOOD/BODY  
FLDS-GENL STUDS, METHS(+15001); MUSCLE SYST-PHYSIOL, BIOCHEM(17-  
504); PHARMACOL-DIGESTIVE SYST(22014); PHARMACOL-MUSCLE  
SYST(+22022); TOXICOL-GENL/EXP STUDS, METHS(+22501); IN VITRO  
STUDS-CELLULR, SUBCELL(32600)

Biosystematic Codes: CAVIIDAE(86300)

61034231

## EFFECT OF POLY VINYL CHLORIDE ON WATER MICRO FLORA

SHEFTEL V O; TSAM Z S; BLIZNYUK I D  
GIG SANIT (4). 1975 99-100. Coden: GISAA  
Descriptors: ENTERIC BACTERIA BLUE-GREEN ALGAE IRON BACTERIA  
INFUSORIA FUNGI ROTIFERS

Concept Codes: ECOLOGY-GENL STUDIES, METHODS(07502);  
ECOLOGY-LIMNOLOGY(07514); ECOLOGY-WATR RESRCH, FISHERY BIOL(07-  
517); BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-GENL  
STUDS, METHS(14001); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); MICR-  
OORGANISMS-GENL, MIXED, UNSPEC(29500); MED/CLIN MICROBIOL-GEN, M-  
ETH, TECH(+36001); MED/CLIN MICROBIOL-BACTERIOLOGY(36002);  
ENVIRON HEALTH-AIR, WATR, SL POLLN(+37015); PUB HEALTH-INANIMATE  
DIS VECTORS(37060)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000);  
BACTERIA-UNSPECIFIED(06000); CYANOPHYTA(13900); FUNGI-UNSPECI-  
FIED(15000); CILIATA(35100); ROTIFERA(51600)

61031255

## PRODIGININE PRODIGIOSIN-LIKE PIGMENTS FROM STREPTOVERTICILLIUM-RUBRIRETICULI AN ORGANISM THAT CAUSES PINK STAINING OF POLY VINYL CHLORIDE/

GERBER N N; STAHL D P  
APPL MICROBIOL 30 (5). 1975 807-810. Coden: APMB A  
Concept Codes: BIOCHEM METH-GENERAL(10050); BIOCHEM  
STUD-GENERAL(10060); BACTERIA-MORPHOLOGY, CYTOLOGY(30500); BAC-  
TERIA-PHYSIOLOGY, BIOCHEMISTRY(+31000); MICROBIOLOG APPARAT, ME-  
THS, MEDIA(32000); FOOD/INDUS MICRO-BIODEGRAD, DETER(+39006)  
Biosystematic Codes: ACTINOMYCETALES(06200)

61026702

## PATHOLOGICAL ANATOMY OF VINYL CHLORIDE DISEASE

ZIMMERMANN H; ECK H

VIRCHOWS ARCH A PATHOL ANAT HISTOL 368 (1). 1975 51-59.

Codan: VAAPB

Descriptors: HUMAN ANIMAL EXPERIMENTS CARCINOGEN LIVER ANGIO SARCOMA OCCUPATIONAL EXPOSURE

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-GENERAL STUDIES(12502); PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-LYMPHAT TISS.RES(15008); BONE.JNTS.FASC.CONN/ADIP-PATHOL-(18006); TOXICOL-ENVIRONMNTL.INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR.STATISTICS(37-010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); EPIDEMIOLOG-ORGANIC DIS.NEOPLASMS(37054)

Biosystematic Codes: MAMMALIA-UNSPECIFIED AND EXTINCT(85700); HOMINIDAE(86215)

61022785

## SOME LIMITATIONS IN THE USE OF PLASTIC AND DYED PLASTIC DOSIMETERS

MILLER A; BJERGBAKKE E; MCLAUGHLIN W L

INT J APPL RADIAT ISOT 26 (10). 1975 611-620. Codan:

IJARA

Descriptors: CELLULOSE TRI ACETATE POLY METHYL METHACRYLATE POLY VINYL CHLORIDE CELLOPHANE NYLON RESPONSE REPRODUCIBILITY CALIBRATION

Concept Codes: RADIATION BIOL-RADTN.ISOTOP TECH(+06504); RADIATION BIOL-RADTN EFF.PROTECT(06506); BIOCHEM STUD-GENERAL(+10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-BIOENGINEERING(+10511)

61020768

## MUTATION INDUCTION IN CHINESE HAMSTER V-79 CELLS BY 2 VINYL CHLORIDE METABOLITES CHLORO ETHYLENE OXIDE AND 2 CHLORO ACETALDEHYDE

HUBERMAN E; BARTSCH H; SACHS L

INT J CANCER 16 (4). 1975 639-644. Codan: IJCNA

Descriptors: RAT HUMAN MAMMAL 2 CHLORO ETHANOL MONO CHLORO ACETIC-ACID CARCINOGENS 8 AZA GUANINE OUABAIN RESISTANCE METAB-DRUGS

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(+02506); GENETICS/CYTOGENET-ANIMAL(+03506); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACID.PURNS.PYRM(10062); BIOCHEM STUD-CARBOHYDR.(1006-8); METABOLISM-GENL STUD.METAB PATHW(+13002); URIN SYST/EXT SECR-PHYSL.BIOCHEM(15504); PHARMACOL-DRUG METAB.METAB STIMU(+22003); TOXICOL-GENL/EXP STUDS.METHS(+22501); NEOPLSMS/NEOPL AGNTS-CELL LINE(+24005); NEOPLSMS/NEOPL AGNTS-BIOCHEM(+24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); TISS CULTURE-APPARAT.METHS.MEDIA(32500); PLANT PHYSIOL-CHEM.CONSTITUTIVES(45000)

## PHARMACOGNOSY/PHARMACEUT BOTANY(54000)

Biosystematic Codes: APOCYNACEAE(25580); MAMMALIA-UNSPECIFIED AND EXTINCT(85700); HOMINIDAE(86215); CRICETIDAE(86310); MURIDAE(86375)

61015308

## MUTAGENICITY OF CHLORO ACETALDEHYDE A POSSIBLE METABOLIC PRODUCT OF 1 2 DI CHLORO ETHANE ETHYLENE DI CHLORIDE CHLORO ETHANOL ETHYLENE CHLOROHYDRIN VINYL CHLORIDE AND CYCLO PHOSPHAMIDE

MCCANN J; SIMMON V; STREITWIESER D; AMES B N

PROC NATL ACAD SCI U S A 72 (8). 1975 3190-3193. Codan:

PNASA

Descriptors: RAT HUMAN LIVER HOMOGENATE ACTIVATION SALMONELLA TA-100 STRAIN MAMMAL CARCINOGEN OCCUPATIONAL EXPOSURE

Concept Codes: BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD.METAB PATHW(+13002); DIGESTIVE SYST-PHYSIOL.BIOCHEM(1400-4); PHARMACOL-GENERAL STUDIES(+22002); PHARMACOL-DRUG METAB.METAB STIMU(+22003); TOXICOL-PHARMACOLOGICAL(+22504); TOXICOL-ENVIRONMNTL.INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-BIOCHEM(24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); NEOPLSMS/NEOPL AGNTS-THERAP.AGNT(+24008); BACTERIA-PHYSIOLOGY-BIOCHEMISTRY(31000); BACTERIAL AND VIRAL GENETICS(+31500); MICROBIOLOG APPARAT.METHS.MEDIA(32000); IN VITRO STUDS-CELLUL-R.SUBCELL(32600); MED/CLIN MICROBIOL-BACTERIOLOGY(+36002); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); CHEMOTHERAPY-GEN STUD.METH.METAB(+38502)

Biosystematic Codes: EUBACTERIALES(07200); MAMMALIA-UNSPECIFIED AND EXTINCT(85700); HOMINIDAE(86215); MURIDAE(86375)

61011458

## THE ASSOCIATION OF VINYL CHLORIDE EXPOSURES WITH MORBIDITY SYMPTOMS

SPIRTAS R; MCMICHAEL A J; GAMBLE J; VAN ERT M

AM IND HYG ASSOC J 36 (10). 1975 779-789. Codan: AIHAA

Descriptors: HUMAN OCCUPATIONAL EXPOSURE

Concept Codes: BIOCHEM STUD-GENERAL(10060); PATHOLOGY-GENERAL STUDIES(+12502); METABOLISM-GENL STUD.METAB PATHW(13002); TOXICOL-ENVIRONMNTL.INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

61009018

## FOREIGN BODY TUMORIGENESIS IN-VITRO ISOLATION AND EXPANSION OF PRE-NEOPLASTIC CLONAL CELL POPULATIONS

BUONEN L C; BRAND I; BRAND K G

J NATL CANCER INST 55 (3). 1975 721-724. Coden: JNCIA

Descriptors: MOUSE VINYL CHLORIDE VINYL ACETATE CO POLYMER FILM CARCINOGEN

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); GENETICS/CYTOGENET-ANIMAL(03506); BIOCHEM STUD-GENERAL(10060); BIOPHYS--MOLECUL PROP,MACROMOLEC(10506); ANATOMY/HISTOL-REGEN,TRANSPLANT(11107); PATHOLOGY-GENERAL STUDIES(12502); INTEGUMENT SYST-GENL STUDS,METHS(18501); ROUTES OF IMMUNIZ,INFECT,THERAP-(22100); TOXICOL-GENL/EXP STUDS,METHS(\*22501); NEOPLSMS/NEOPL AGNTS-CELL LINE(\*24005); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); LABORATORY ANIMALS-GENL STUDS(28002); TISS CULTURE-APPARAT,METHS,MEDIA(32500)

Biosystematic Codes: MURIDAE(86375)

61005628

## SENSITIVE TRAPPING AND GAS CHROMATOGRAPHIC METHOD FOR VINYL CHLORIDE IN AIR SAMPLES

IVES N F

J ASSOC OFF ANAL CHEM 58 (3). 1975 457-460. Coden: JANCA

Descriptors: INDUSTRIAL CHEMICAL HEALTH HAZARD PROPELLANT

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(\*10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(\*10504); EXTERN EFF-COLD(10616); EXTERN EFF-HOT(10618); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); TEMPERATURE-GENL,METHS-(23001); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015); PEST CONTRL GENL/PESTICS/HERBICS(54600)

61005075

## A UV CONDUCTIVITY METHOD FOR DETERMINATION OF AIRBORNE LEVELS OF VINYL CHLORIDE/

CONFER R G

AM IND HYG ASSOC J 36 (7). 1975 491-496. Coden: AIHAA

Concept Codes: GENERAL FIELD METHODS(\*01008); GENERAL FIELD APPARATUS(01010); MATHEMATIC BIOL/STATISTIC METH(04500); RADIATION BIOL-RADTN,ISOTOP TECH(\*06504); ECOLOGY-BIOCLIMATOL-BIOMETEOROL(07504); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(\*10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

CHABALKO J J; FRAUMENI J F JR

MED PEDIATR ONCOL 1 (2). 1975 135-142. Coden: MPOND

Descriptors: USA VINYL CHLORIDE THOROTRAST ARSENIC CARCINOGENS FAMILIAL INFLUENCE ANGIO SARCOMA HEM ANGIO ENDOTHELIOMA HEM ANGIO PERI CYTOMA SKIN LIVER TUMORS

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); GENETICS/CYTOGENET-HUMAN(\*03508); SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION BIOL-RADTN,ISOTOP TECH(06504); RADIATION BIOL-RADTN EFF,PROTECT(\*06506); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); PATHOLOGY-COMPARATIVE(12503); PATHOLOGY-DIAGNOSTIC(12504); PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PATHOLOGY(\*14006); CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); INTEGUMENT SYST-PATHOLOGY(\*18506); PHARMACOL--GENERAL STUDIES(\*22002); PHARMACOL-CLINICAL PHARMACOL(22005); TOXICOL-PHARMACOLOGICAL(\*22504); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-DIAGNS METH(24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); PEDIATRICS(\*25000); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-MISCELL STUDS(\*37019); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(\*37054)

Biosystematic Codes: HOMINIDAE(86215)

61000572

## EFFECTS OF COLLAGEN AND ARTIFICIAL SURFACES ON PLATELETS THAT INFLUENCE BLOOD COAGULATION

MASON R G; READ M S

THROMB RES 7 (3). 1975 471-480. Coden: THBRA

Descriptors: HUMAN FACTOR-VII DEFICIENCY FACTOR-IX DEFICIENCY FACTOR-XII DEFICIENCY ALBUMIN DENSITY GRADIENT PLATELET FACTOR-3 SILASTIC SILICONE CUPROPHANE GLASS KAOLIN POLY ETHYLENE POLY VINYL CHLORIDE TEFLON

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(\*02508); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(\*10064); BIOCHEM STUD-LIPIDS(10066); BIOPHYS-MOLECUL PROP,MACROMOLEC(\*10506); BIOPHYS-BIOENGINEERING(\*10511); ENZYMES-GEN,COMPAR STUD,COENZ-YMS(10802); ENZYMES-PHYSIOLOGICAL STUDIES(\*10808); METABOLISM-PROTNS,PEPTDS,AM ACDS(13012); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(\*15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(\*15004); BLOOD/BODY FLDS-BLD,LYM,RES PATH(\*15006); BONE,JNTS,FASC,CONN-ADIP-PHY,BCH(\*18004)

Biosystematic Codes: HOMINIDAE(86215)

61003719

## BLOOD VESSEL NEOPLASMS IN CHILDREN EPIDEMIOLOGIC ASPECTS

61000570

## ADHESION OF HUMAN BLOOD PLATELETS TO GLASS AND POLYMER SURFACES PART 1 STUDIES WITH PLATELETS IN PLASMA

MOHAMMAD S F; HARDISON M D; GLENN C H; MORTON B D; BOLAN J C  
; MASON R GHAEMOSTASIS 3 (5-6). 1974 (RECD 1975) 257-270. Coden:  
HMTSBDescriptors: CITRATED PLASMA FACTOR DEFICIENCIES VON  
WILLEBRANDS DISEASE POLY ETHYLENE POLY VINYL CHLORIDE  
CUPROPHANE EDTA HEPARIN ACETYL SALICYLIC-ACID GLUCOSAMINE  
SULFINPYRAZONE IMIPRAMINE DESIPRAMINE AMITRIPTYLINE  
CHLORPROMAZINE P CHLOROMERCURI BENZOIC-ACID PENICILLIN  
HEMATOL-DRUGS THROMBASTHENIA AFIBRINOGENEMICConcept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); GENETICS/CYT-  
OGENET-HUMAN(03508); COMPARATIVE BIOCHEM-GENL STUDIES(+10010);  
BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS, PEPTIDES, A-  
MINO ACID(10064); BIOCHEM STUD-CARBOHYDR.(10068); BIOPHYS-MOLE-  
CUL PROP, MACROMOLEC(+10506); METABOLISM-PROTNS, PEPTDS, AM  
ACIDS(13012); METABOLISM-METABOLIC DISORDERS(13020); CARDIOVASC  
SYST-BLD VESS PATHOL(14508); BLOOD/BODY FLDS-GENL  
STUDS, METHS(15001); BLOOD/BODY FLDS-BLOOD, LYMPH STUD(+15002);  
BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004); BLOOD/BODY  
FLDS-BLD, LYM, RES PATH(15006); PHARMACOL-BLOOD, HEMATO AGENTS(+  
22008); PHARMACOL-NEUROPHARMACOLOGY(22024); GERONTOLOGY(24500)  
; DEVELOPMNTL BIOL-PATHOLOGICAL(25503); CHEMOTHERAPY-GEN  
STUD, METH, METAB(38502)

Biosystematic Codes: HOMINIDAE(86215)

76099997

LIGHT CONDITIONING IN CULTIVATIONS PROTECTED BY LIGHT  
SELECTIVE COVERINGS

FAVILLI R

ATTI ACCAD SCI SIENA FISIOCRIT 3 (14). 1971 (RECD 1976)  
179-186 Coden: AFISADescriptors: TOMATO POLY VINYL CHLORIDE TEMPERATURE HUMIDITY  
CARBON D1 OXIDEConcept Codes: GENERAL FIELD METHODS(+01008); GENERAL FIELD  
APPARATUS(01010); ECOLOGY-BIOCLIMATOL, BIOMETEOROL(07504); BIO-  
CHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); EXTERN  
EFF-LIGHT, DARKNESS(10604); EXTERN EFF-TEMPERATURE(10614);  
EXTERN EFF-HUMIDITY(10620); TEMPERATURE-GENL, METHS(23001);  
PLANT PHYSIOL-TEMPERATURE(+51503); PLANT PHYSIOL-LIGHT, RADIATN  
EFFECTS(+51516); HORTICULT-VEGETABLES(+53008)

Biosystematic Codes: SOLANACEAE(26775)

76096483

A SURFACE ACTIVE AGENT INVOLVED IN POLY VINYL CHLORIDE  
INDUCED HEMOLYSIS

RICHARDS R J; DESAI R; ROSE F A

NATURE (LOND) 260 (5546). 1976 53-54 Coden: NATUA

Descriptors: IONIC DETERGENT SODIUM DODECYL BENZENE

## SULFONATE SULFO SUCCINATE SODIUM LAURYL SULFATE

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); SOCIAL  
BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060);  
BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004); BLOOD/BODY  
FLDS-BLD, LYM, RES PATH(+15006); TOXICOL-ENVIRONMNTL, INDUSTR(+2-  
2506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON  
HEALTH-AIR, WATR, SL POLLN(+37015)

Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150)

76093594

## LIVER PATHOLOGY IN PULMONARY DISEASES OF INHALATORY ORIGIN

MENEZES A P; PIMENTEL J C

AM REV RESPIR DIS 113 (4). 1976 106 Coden: ARDSB

Descriptors: ABSTRACT HUMAN GUINEA-PIG PATHOGENIC DUSTS  
VINEYARD SPRAYERS LUNG COPPER INCLUSIONS INORGANIC ARSENIC  
VINYL CHLORIDEConcept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
STUD-GENERAL(10060); MINERALS(10069); PATHOLOGY-INFLAMMATN, IN-  
FLAM DIS(12508); DIGESTIVE SYST-PATHOLOGY(+14006); RESPIRATORY  
SYST-PATHOLOGY(+16006); TOXICOL-ENVIRONMNTL, INDUSTR(+22506);  
ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR, W-  
ATR, SL POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215); CAVIIDAE(86300)

76092563

APPLICATION OF AN AUTOMATED HEAD SPACE PROCEDURE FOR TRACE  
ANALYSIS BY GAS CHROMATOGRAPHY

KOLB B

J CHROMATDGR 122. 1976 553-568 Coden: JOCRA

Descriptors: AIR POLLUTION VINYL CHLORIDE FATTY-ACIDS HYDRO  
CARBONS GASOLINE POLLUTED WATER BLOOD TRI CHLORO ETHANOL BEER  
DI KETONES URINE AMPHETAMINE FOOD PACKAGING FOIL RESIDUESConcept Codes: ECOLOGY-BIOCLIMATOL, BIOMETEOROL(+07504);  
ECOLOGY-OCEANOGRAPHY, LIMNOLOGY(+07510); ECOLOGY-WATR RESRCH, F-  
ISHERY BIOL(07517); CLIN BIOCHEM-GENL STUDIES(+10006); BIOCHEM  
METH-GENERAL(+10050); BIOCHEM METH-LIPIDS(+10056); BIOCHEM  
STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(10066); BIOPHYS-GENE-  
RAL BIOPHYS TECH(+10504); MOVEMENT(12100); FOOD  
TECH-MALTS, BREWS, FERMENTATN(+13512); FOOD TECH-EVALNS PHYS, CH-  
EM PROPS(+13530); BLOOD/BODY FLDS-BLOOD, LYMPH STUD(+15002);  
URIN SYST/EXT SECR-PHYSL, BIOCHEM(+15504); PHARMACOL-GENERAL  
STUDIES(+22002); TOXICOL-GENL/EXP STUDS, METHS(+22501);  
TOXICOL-FOOD, RESIDS, ADDIT, PRESRV(+22502);  
TOXICOL-ENVIRONMNTL, INDUSTR(+22506); ENVIRON HEALTH-AIR, WATR, -  
SL POLLN(+37015)

76092150

## MUTAGENIC EFFECTS OF VINYL CHLORIDE IN DROSOPHILA-MELANOGASTER

MAGNUSSON J; RAMEL C

MUTAT RES 38 (2). 1976 115 Coden: MUREA

Descriptors: ABSTRACT MUTATION TRANSMISSION SEX LINKAGE CARCINOGENS METABOLIC ACTIVATION

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); GENETICS/CYTOGENET-ANIMAL(\*03506); GENETICS/CYTOGENET-SEX DIFFERENC(\*03510); BIOCHEM-GASES(10012); PATHOLOGY-NECROSIS(12510); METABOLISM-ENERGY, RESPIRATION(\*13003); RESPIRATORY SYST-GENL STUD,METHS(16001); REPRODUCT SYST-PHYSIOL,BIOCHEM(16504); ENDOCRINE SYST-GONADS,PLACENTA(17006); ROUTES OF IMMUNIZ,INFE-CT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(\*22501); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); INVERTB PHYSIOL-INS-ECTA-PHYSIOL(\*64076)

Biosystematic Codes: DIPTERA(75314)

76092149

## MUTAGENICITY OF INDUSTRIAL COMPOUNDS VINYL CHLORIDE STYRENE AND THEIR POSSIBLE METABOLITES

LOPRIENO N; ABBONDANDOLO A; BARALE R; BARONCELLI S; BONATTI S; BRONZETTI G; CAMMELLINI A; CORSI C; CORTI G; ET AL.

MUTAT RES 38 (2). 1976 114-115 Coden: MUREA

Descriptors: ABSTRACT MOUSE YEAST SACCHAROMYCES-POMBE HAMSTER SACCHAROMYCES-CEREVISIAE CARCINOGENIC ACTIVITY TOXICOLOGY MICROSOMAL ASSAY

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); GENETICS/CYTOGENET-ANIMAL(\*03506); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108); DIGESTIVE SYST-PHYSIOL,BIOCHEM(14004); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); BACTERIAL AND VIRAL GENETICS(\*31500); MICROBIOLOG APPARAT,METHS,MEDIA(32000); TISS CULTURE-APPARAT,METHS,MEDIA(32500); IN VITRO STUDS-CELLULR,SUBCELL(32600); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: ASCOMYCETES(15100); CRICETIDAE(86310); MURIDAE(86375)

76092147

## THE MUTAGENICITY OF WASTE PRODUCTS FROM THE VINYL CHLORIDE INDUSTRIES

RANNUG U; RAMEL C

MUTAT RES 38 (2). 1976 113-114 Coden: MUREA

Descriptors: ABSTRACT RAT SALMONELLA TEST SYSTEM CARCINOGEN LIVER NAUPH GENERATING SYSTEM

Concept Codes: MICROSCOPY-CYTOLOG,CYTOCHEM TECH(01054); CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); GENETICS/CYTOGENET-ANIMAL(\*03506); ECOLOGY-OCEANOGRAPHY(07512); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); ENZYMES-GEN,COMPAR STUD,COENZYS(\*10802); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108); METABOLISM-GENL

STUD,METAB PATHW(13002); METABOLISM-NUCL ACD,PURINS,PYRM(\*13014); DIGESTIVE SYST-PHYSIOL,BIOCHEM(14004); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); MICROBIOLOG APPARAT,METHS,MEDIA(\*32000); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: EUBACTERIALES(07200); MURIDAE(86375)

76092144

## CHROMOSOME STUDIES IN WORKERS EXPOSED TO VINYL CHLORIDE

HANSTEEN I L; HILLESTAD L; THIS-EVENSEN E

MUTAT RES 38 (2). 1976 112 Coden: MUREA

Descriptors: ABSTRACT HUMAN MUTAGEN CHROMOSOME ABERRATION LYMPHOCYTE CULTURE SEX AGE

Concept Codes: MICROSCOPY-CYTOLOG,CYTOCHEM TECH(01054); CYTOLOGY/CYTOCHEM-HUMAN(\*02508); GENETICS/CYTOGENET-SEX DIFFERENC(\*03510); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(\*11108); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); BONE,JNTS,FASC,CONN/ADIP-PHY,BCH(18004); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); GERONTOLOGY(24500); TISS CULTURE-APPARAT,METHS,MEDIA(32500); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215)

76091588

## EXPRESS METHODS OF DETERMINING CARCINOGENICITY OF CHEMICAL SUBSTANCES

BELITSKII G A

VOPR ONKOL (LENINGR) 22 (4). 1976 107-108 Coden: VOONA

Descriptors: HUMAN MAMMALIAN CELLS OCCUPATIONAL EXPOSURE ENVIRONMENTAL EXPOSURE CHROMOSOMAL ABERRATIONS DNA REPAIR SYNTHESIS VINYL CHLORIDE STILBESTROL CARCINOGENS

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); GENETICS/CYTOGENET-ANIMAL(\*03506); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(10050); BIOCHEM METH-NUCL ACD,PURNS,PYRM(10052); BIOCHEM METH-STEROLS,STEROIDS(10057); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-STEROLS,STEROIDS(10067); REPLICATN,TRANSCRIPTN,T-RANSLATN(\*10300); PATHOLOGY-THERAPY(12512); METABOLISM-NUCL ACD,PURINS,PYRIM(\*13014); ENDOCRINE SYST-GONADS,PLACENTA(1700-6); PHARMACOL-CLINICAL PHARMACOL(22005); PHARMACOL-ENDOCRINE SYST(\*22016); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-PHARMACOLOGICAL(\*22504); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CELL LINE(\*24005); NEOPLSMS/NEOPL AGNTS-BIOCHEM(24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: MAMMALIA-UNSPECIFIED AND EXTINCT(85700); HOMINIDAE(86215)

76083494

## HEPATIC ANGIO SARCOMA IN A VINYL CHLORIDE WORKER

SMITH P M; WILLIAMS M J; EVANS D M D

BULL N Y ACAD MED 52 (4). 1976 447-452 Coden: BNYMA

Descriptors: HUMAN CARCINOGEN

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(\*14006); CARDIOVASC SYST-BLD VESS PATHOL(\*1450-8); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

76082964

## BIOLOGICAL REACTIVITY OF POLY VINYL CHLORIDE DUST

RICHARDS R J; DESAI R; HEXT P M; ROSE F A

NATURE (LOND) 256 (5519). 1975 664-665 Coden: NATUA

Descriptors: NOTE HUMAN WORKERS VINYL CHLORIDE MONOMER CARCINOGENS HEMOLYSIS

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY FLDS-BLD,LYM,RES PATH(\*15006); TOXICOL-ENVIRONMNTL,INDUSTR(\*2-2506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

76082649

## VINYL CHLORIDE DISEASE ACRO OSTEOLYSIS

DARKE C S

TUBERCLE 56 (3). 1975 (RECD 1976) 242 Coden: TUBEA

Descriptors: ABSTRACT HUMAN DYSPNEA RESTRICTIVE LUNG DISEASE RAYNAUD LUNG PULMONARY CIRCULATION REFLEX VASO SPASM LUNG SCAN

Concept Codes: PHOTOGRAPHY-METHS,MATLS,APPARAT(01012); SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION BIOL-RADIN,ISOTOP TECH(06504); ANATOMY/HISTOL-RADIOLOGIC(11106); PATHOLOGY-DIAGNOSTIC(12504); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); RESPIRATORY SYST-GENL STUD,METHS(16001); RESPIRATORY SYST-PATHOLOGY(\*16006);

BONE,JNTS,FASC,CONN/ADIP-PATHOL(\*18006);

TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

76072395

## VINYL ACRO SYNDROMES

HAWTHORN E

ARCH MAL PROF MED TRAV SECUR SOC 36 (6). 1975 (RECD 1976) 369-370 Coden: AMPMA

Descriptors: ABSTRACT HUMAN WORKERS POLY VINYL CHLORIDE LIVER ANGIO SARCOMA BONE VASO MOTOR SYNDROME UPPER EXTREMITIES SKIN THICKENING HAND FINGERS COLD CONTACT MOBILIZATION CYANOSIS REYNAUDS SYNDROME

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-COLD(10616); CHORDATE BODY REGNS-EXTREMITIES(11318); MOVEMENT(12100); PATHOLOGY-GENERAL STUDIES(12502); METABOLISM-GENL STUD,METAB PATHW(\*13002); DIGESTIVE SYST-PATHOLOGY(\*140-06); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL(\*18006); INTEGUMENT SYST-PATHOLOGY(\*18506); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506);

TEMPERATURE-HYPO,HYPERTHERMIA(23006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

76072394

## POLY VINYL CHLORIDE AND INDUSTRIAL PATHOLOGY

BOTTA A; MATHIAS A; POYEN D

ARCH MAL PROF MED TRAV SECUR SOC 36 (6). 1975 (RECD 1976)  
368-369 Coden: AMPMADescriptors: ABSTRACT ENGLAND USA NERVOUS SYSTEM DEPRESSION  
PERIPHERAL VASO MOTOR SYMPTOMS PORTAL FIBROSIS PORTAL  
HYPERTENSION ARTERIAL HYPERTENSION CANCER ANGIO SARCOMA LIVER  
MAXIMUM LEVELConcept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
STUD-GENERAL(10060); METABOLISM-GENL STUD,METAB PATHW(+13002);  
DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS  
PATHOL(+14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); NERVO-  
US SYST-PATHOLOGY(+20506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506)  
; NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINI-  
STR,STATISTICS(+37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+3701-  
3); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

76072388

HARMFUL EFFECTS OF MANUFACTURE OF PLASTIC BOTTLES OF POLY  
VINYL CHLORIDE

DUPORT J; ANDLAUER P; GATTELET M; CHALABREYSSE J; MONCELON

ARCH MAL PROF MED TRAV SECUR SOC 36 (6). 1975 (RECD 1976)  
351-353 Coden: AMPMADescriptors: HUMAN WORKERS OCCUPATIONAL DISEASE  
ERYTHRODERMIAS ANOREXIA ASTHENIA HEAD ACHE VERTIGO  
LYMPHOCYTOSIS NEUTROPENIA LOW PLATELET COUNT ALPHA PHENYL  
INDOLE RESIN ADJUVANTConcept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); SOCIAL  
BIOL/HUMAN ECOLOGY(05500); BEHAVIOR BIOL-HUMAN BEHAVIOR(07004)  
; CLIN BIOCHEM-GENL STUDIES(10006); BIOCHEM STUD-GENERAL(1006-  
0); CHORDATE BODY REGNS-HEAD(11304); PATHOLOGY-GENERAL  
STUDIES(+12502); NUTRITION-GENL,NUTR STATUS,METHS(13202);  
BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY  
FLDS-BLD,LYM,RES PATH(+15006); INTEGUMENT SYST-PATHOLOGY(+185-  
06); SENSE ORGANS-PATHOLOGY(20006); NERVOUS SYST-PATHOLOGY(20-  
506); PSYCHIATRY-PSYCHOPHYSIOLOGY(21003); TOXICOL-ENVIRONMNTL-  
INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

76072382

OCCUPATIONAL DISEASES IN CONNECTION WITH THE MANUFACTURE OF  
PLASTIC BOTTLES OF POLY VINYL CHLORIDE PART 3 TOXICOLOGICAL  
EXPERIMENTAL STUDY

CICOLELLA A; GRADISKI D; MAGADUR J-L; MONCELON B

ARCH MAL PROF MED TRAV SECUR SOC 36 (6). 1975 (RECD 1976)  
315-327 Coden: AMPMADescriptors: ANIMAL HUMAN WORKERS SKIN BLOOD DISORDERS  
METABOLISM URINE ANALYSIS ALPHA PHENYL INDOLConcept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); CLIN  
BIOCHEM-GENL STUDIES(10006); BIOCHEM STUD-GENERAL(10060);  
METABOLISM-GENL STUD,METAB PATHW(+13002); BLOOD/BODY  
FLDS-BLD,LYM,RES PATH(+15006); URIN SYST/EXT SECR-PHYSL,BIOCH-  
EM(15504); INTEGUMENT SYST-PATHOLOGY(+18506); TOXICOL-ENVIRON-  
MNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150); HOMINID-  
AE(86215)

76070374

METHODS FOR EXAMINATION OF METABOLISM OF GASEOUS CARBON-14  
VINYL CHLORIDE IN-VITRO AND IN-VIVO

BOLT H M; KAPPUS H

NAUNYN-SCHMIEDEBERG'S ARCH PHARMACOL 293 (SUPPL). 1976 R69

Coden: NSAPC

Descriptors: ABSTRACT RAT 6 NITRO-1,2,3 BENZOTHIADIAZOLE  
METAB-DRUG MICROSOAL PROTEIN BINDINGConcept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); RADIATION  
BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM-GASES(+10012); BIOCHEM  
STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO  
ACD(10064); BIOPHYS-MEMBRANE PHENOMENA(10508); METABOLISM-GENL  
STUD,METAB PATHW(+13002); METABOLISM-PROTNS,PEPTDS,AM ACDS(+1-  
3012); PHARMACOL-DRUG METAB,METAB STIMU(+22003); TOXICOL-GENL-  
/EXP STUDS,METHS(+22501); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+2-  
4007); IN VITRO STUDS-CELLULR,SUBCELL(32600)

Biosystematic Codes: MURIDAE(86375)

76070355

## COVALENT BINDING OF CARBON-14 VINYL CHLORIDE TO PROTEINS AND NUCLEIC-ACIDS IN-VITRO AND IN-VIVO

KAPPUS H; KAUFMANN R; APPEL K E; BOLT H M

NAUNYN-SCHMIEDEBERG'S ARCH PHARMACOL 293 (SUPPL). 1976 R64

Codon: NSAPC

Descriptors: ABSTRACT RAT LIVER MICROSOMES GAS LIVER LUNG KIDNEY SPLEEN

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); RADIATION BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOPHYS-MEMB-RANE PHENOMENA(10508); METABOLISM-GENL STUD,METAB PATHW(+1300-2); METABOLISM-PROTNS,PEPTDS,AM ACDS(+13012); METABOLISM-NUCL ACD,PURINS,PYRIM(+13014); DIGESTIVE SYST-PHYSIOL,BIOCHEM(1400-4); BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); URIN SYST/EXT SECR-PHYSL,BIOCHEM(15504); RESPIRATORY SYST-PHYSIOL,BIOCHEM(1-6004); TOXICOL-GENL/EXP STUDS,METHS(+22501); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); IN VITRO STUDS-CELLULR,SUBCELL(326-00)

Biosystematic Codes: MURIDAE(86375)

76062340

## OCCUPATION

COLE P; GOLDMAN M B

FRAUMENI, JOSEPH F. JR. PERSONS AT HIGH RISK OF CANCER. AN APPROACH TO CANCER ETIOLOGY AND CONTROL. PROCEEDINGS OF A CONFERENCE. KEY BISCAYNE, FLA., U.S.A., DEC. 10-12, 1974. XVIII+544P. ILLUS. ACADEMIC PRESS: NEW YORK, N.Y., U.S.A.; LONDON, ENGLAND. ISBN 0-12-265950-3. 1975 (RECD 1976) 167-184 Codon: 05123

Descriptors: HUMAN ARSENIC ASBESTOS BENZENE AROMATIC AMINES VINYL CHLORIDE CHROMIUM ISO-PROPYL OIL NICKEL RADIATION LUNG BLADDER BONE BONE MARROW CANCERS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION BIOL-RADTN,ISOTOP TECH(06504); RADIATION BIOL-RADTN EFF,PROTECT(+06506); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(10066); MINERALS(10069); BLOOD/BODY FLDS-BLD,LYM,-RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); URIN SYST/EXT SECR-PATHOLOGY(+15506); RESPIRATORY SYST-PATHIOL-DGY(+16006); BONE,JNTS,FASC,CONN/ADIP-GENL(18001); BONE,JNTS,-FASC,CONN/ADIP-PATHOL(+18006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); NEOPLSMS/NEOPL AGNTS-BLOOD,RES(+24010); ENVIRON HEALTH-OCUPATNL HEALTH(+37013); ENVIRON HEALTH-RADIATION HEALTH(+37017)

Biosystematic Codes: HOMINIDAE(86215)

76061303

## DETECTING 2 URINE METABOLITES OF VINYL CHLORIDE

MUELLER G; NORPOTH K

NATURWISSENSCHAFTEN 62,(11). 1975 541 Codon: NATWA  
 Descriptors: RAT INDUSTRIAL EXPOSURE INDICATOR S  
 CARBOXYMETHYL CYSTEINE THIO DI ACETIC-ACID GAS CHROMATOGRAPHY  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); CLIN BIOCHEM-GENL STUDIES(+10006); BIOCHEM METH-GENERAL(10050); BIOCHEM METH-PROTNS,PEPTDS,AM AC(10054); BIOCHEM STUD-GENERAL-(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); METABOLISM-GENL STUD,METAB PATHW(+13002); URIN SYST/EXT SECR-PHYSL,BIOCHEM(+15504); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

76055219

## MASS FRAGMENTOGRAPHY GAS CHROMATOGRAPHY MASS SPECTROMETRY IN THE ANALYSIS OF HAZARDOUS ENVIRONMENTAL CHEMICALS

BONELLI E J; TAYLOR P A; MORRIS W J

INT LAB SEPT/OCT 1975 19-28 Codon: ILBYA

Descriptors: WATER POLLUTION PESTICIDES VINYL CHLORIDE CARCINOGENS ORGANICS HEXA DECANE EXTRACTION CHLORO FLUORO CARBONS

Concept Codes: ECOLOGY-LIMNOLOGY(07514); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

76053887

## THE PHYSICO-CHEMICAL CHARACTERISTICS OF THE POTABILITY OF WATER

COTTET J

BULL ACAD NATL MED (PARIS) 159 (5). 1975 (RECD 1976) 383-389 Codon: BANMA

Descriptors: FRANCE WHO POLLUTION STANDARDS CHLORIDES PESTICIDES CARCINOGENS ARSENIC VINYL CHLORIDE MONOMER

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(+07504); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM STUD-GENERAL(+10060); MINERALS(+10069); NUTRITION-GENL,NUTR STATUS,METHS(+13202); FOOD TECH-EVALNS PHYS,CHEM PROPS(+13500); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR,STATISTICS(+37010); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); PEST CONTRL GENL/PESTICS/HERBICS(+54600)

76047352

DECREASED GLUCOSE 6 PHOSPHATASE ACTIVITY IN LIVER IN VINYL CHLORIDE EXPOSED RATS

DU J T; TAMBURRO C H

FED PROC 35 (7), 1976 329 Coden: FEPR

Descriptors: ABSTRACT CARCINOGENESIS ANGIO SARCOMA HEPATOMA CYTOCHROME P-450 NADPH CYTOCHROME C REDUCTASE MIXED FUNCTION OXIDASE CYTOCHROME OXIDASE BLOOD TRANS AMINASES GLYCOLYSIS

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); BIOCHEM STUD-PORPHYRINS,BILE PIGM(10065); BIOCHEM STUD-CARBOHYDR.(10068); ENZYMES-GEN.COMPAR STUD.COENZYM(1080-2); ENZYMES-PHYSIOLOGICAL STUDIES(+10808); METABOLISM-GENL STUD,METAB PATHW(+13002); METABOLISM-CARBOHYDRATES(+13004); DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007)

Biosystematic Codes: MURIDAE(86375)

76047007

CHARACTERIZATION OF FROZEN AND REFRIGERATED ORANGE JUICE CONCENTRATES CITRUS-SINENSIS

GALEB P S; KIGER F M; BASAEZ G Y

INVEST AGRIC (SANTIAGO) 1 (2), 1975 (RECD 1976) 97-101

Coden: IAGRD

Descriptors: WASHINGTON VALENCIA LATE CULTIVAR CHILEAN TYPE POLYALUFAN POLY VINYL CHLORIDE STORAGE TEMPERATURE

Concept Codes: GENETICS/CYTOGENET-PLANT(03504); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-TEMPERATURE(10614); EXTERN EFF-COLD(+10616); FOOD TECH-FRUIT,NUTS,VEGETABLES(+13504); FOOD TECH-EVALNS PHYS,CHEM PROPS(+13530); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); TEMPERATURE-GENL,METHS(23001); TEMPERATURE-CRYOBIOLOGY(23004); HORTICULT-TROP FRUIT,NUT,PLANTAT(53004)

Biosystematic Codes: RUTACEAE(26685)

76045835

ENVIRONMENTAL MUTAGENESIS INTERSECTION OF SCIENTIFIC AND SOCIAL PROBLEMS

TURCHI G

ATTI ASSOC GENET ITAL 20, 1975 46-47 Coden: AAGNA

Descriptors: HUMAN MICROORGANISMS VINYL CHLORIDE CARCINOGEN OCCUPATIONAL EXPOSURE LIVER ANGIO SARCOMA

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); GENETICS/CYTOGENET-HUMAN(+03508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BONE,JNTS,FASC,CONN/-ADIP-PATHOL(18006); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); MICROORGANISMS-GENL,MIXED,UNSPEC(+29500); BACTERIAL AND VIRAL GENETICS(+31500); MICROBIOLOG APPARAT,METHS,MEDIA(32000); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-MISCELL STUDS(+37019)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000); HOMINIDAE(86215)

76045832

ENVIRONMENTAL MUTAGENESIS RESEARCH PROGRAMS AND UTILIZATION OF DATA IN ITALY

LOPRIENO N

ATTI ASSOC GENET ITAL 20, 1975 38-41 Coden: AAGNA

Descriptors: HUMAN MUTAGENS VINYL CHLORIDE

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(+02506); GENETICS/CYTOGENET-ANIMAL(+03506); SOCIAL BIOL/HUMAN ECOLOGY(+05500); NEOPLSMS/NEOPL AGNTS-PATH,CLINIC(24004); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); ENVIRON HEALTH-RADIATION HEALTH(+37017)

Biosystematic Codes: HOMINIDAE(86215)

76045821

METHODOLOGIES FOR THE QUANTITATIVE EVALUATION OF GENETIC EFFECTS PRODUCED BY CHEMICAL MUTAGENS

BARALE R; BARONCELLI S; BRONZETTI G; CAMMELLINI A; CORSI C; LEPORINI C; LOPRIENO N; NIERI R; NOZZOLINI M; ET AL.

ATTI ASSOC GENET ITAL 20, 1975 3-5 Coden: AAGNA

Descriptors: ABSTRACT SACCHAROMYCES-CEREVISIAE SACCHAROMYCES-POMBE METHYL METHANESULFONATE VINYL CHLORIDE MONOMER MUTAGEN

Concept Codes: CYTOLOGY/CYTOCHEM-PLANT(+02504); GENETICS/CYTOGENET-PLANT(+03504); BIOCHEM STUD-GENERAL(10060); MICROBIOLOG APPARAT,METHS,MEDIA(32000); PLANT PHYSIOL-GROWTH SUBSTANCES(+51514)

Biosystematic Codes: ASCOMYCETES(15100)

76042029

ACUTE HEPATIC INJURY BY VINYL CHLORIDE IN RATS PRE TREATED WITH PHENO BARBITAL

JAEGER R J; REYNOLDS E S; CONOLLY R B; MOSLEN M T; SZABO S; MURPHY S D

NATURE (LOND) 252 (5485). 1974 (RECD 1975) 724-726  
Coden: NATUA

Descriptors: NOTE HUMAN WORKERS ENZYME INDUCER CARCINOGEN MIXED FUNCTION OXIDASE SYSTEM ALANINE ALPHA KETO GLUTARATE TRANS AMINASE SORBITOL DEHYDROGENASE ELECTRON MICROSCOPY

Concept Codes: ELECTRON MICROSCOPY(01058); CYTOLOGY/CYTOCHEM-ANIMAL(02506); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); ENZYMES-PHYSIOLOGICAL STUDIES(\*10808); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(1-1108); PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(\*1-4006); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); PHARMACOL-DRUG METAB,METAB STIMU(\*22003); PHARMACOL-NEUROPHARMACOLOGY(\*22024); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

76041821

MEAT WRAPPERS ASTHMA AN APPRAISAL OF A NEW OCCUPATIONAL SYNDROME

ANDRASCH R H; KOSTER F; LAWSON W H JR; BARDANA E J JR

J ALLERGY CLIN IMMUNOL 55 (2). 1975 130 Coden: JACIB

Descriptors: ABSTRACT HUMAN POLY VINYL CHLORIDE PYROLYSATES AIRWAY OBSTRUCTION

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-HOT(10618); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508); RESPIRATORY SYST-PATHOLOGY(\*16006); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); TEMPERATURE-GENL,METHS(23001); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(34508); ALLERGY(35500); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215)

76039980

CLINICAL AND MORPHOLOGIC FEATURES OF HEPATIC ANGIO SARCOMA IN VINYL CHLORIDE WORKERS

MAKK L; DELMORE F; CREECH J L JR; OGDEN L L II; FADELL E II; SONGSTER C; CLANTON J; JOHNSON M N; CHRISTOPHERSON W M  
CANCER (PHILA) 37 (1). 1976 149-163 Coden: CANCA

Descriptors: HUMAN CARCINOGEN OCCUPATIONAL EXPOSURE HISTOLOGY DIAGNOSIS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108); PATHOLOGY-DIAGNOSTIC(12504); DIGESTIVE SYST-GENL STUDS,METHS(\*14001);

DIGESTIVE SYST-PATHOLOGY(\*14006); CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); BONE,JNTS,FASC,CONN/ADIP-GENL(18001); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-DIAGNS METH(\*24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

76033163

HEALTH EFFECTS OF VINYL CHLORIDE MONOMER AN ANNOTATED LITERATURE COLLECTION

WARREN H; HUFF J E

ENVIRON HEALTH PERSPECT 11. 1975 251-252 Coden: EVHPA

Descriptors: HUMAN WORKERS CARCINOGEN ACRO OSTEOLYSIS TOXICITY LEGISLATION

Concept Codes: GENL BIOL-INSTITUT,ADMIN,LEGISLN(00508); GENL BIOL-BIBLIOGRAPHY(\*00526); GENL BIOL-INFRMTN,DOCU,COMP APPL(\*00530); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-GENERAL STUDIES(\*12502); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

76033162

PULMONARY FUNCTION DEFECTS IN NONSMOKING VINYL CHLORIDE WORKERS

MILLER A

ENVIRON HEALTH PERSPECT 11. 1975 247-250 Coden: EVHPA

Descriptors: HUMAN POLY VINYL CHLORIDE CARCINOGENS OCCUPATIONAL EXPOSURE AGE SPIROMETRY

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL BIOL/HUMAN ECOLOGY(05500); BEHAVIOR BIOL-HUMAN BEHAVIOR(07004); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-DIAGNOSTIC(12504); RESPIRATORY SYST-GENL STUD,METHS(16001); RESPIRATORY SYST-PATHOLOGY(\*16006); PSYCHIATRY-ADDICTIION(INC SMOKNG)(\*21004); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); GERONTOLOGY(24500); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(\*37054); PLANT PHYSIOL-CHEM CONSTITUENTS(51522)

Biosystematic Codes: PLANTAE-UNSPECIFIED(11000); HOMINIDAE(-86215)

76033160

## EFFECTS OF VINYL CHLORIDE EXPOSURES TO RATS PRE TREATED WITH PHENO BARBITAL

DREW R T; HARPER C; GUPTA B N; TALLEY F A

ENVIRON HEALTH PERSPECT 11. 1975 235-242 Coden: EVHPA

Descriptors: VINYL CHLORIDE 3 METHYL CHOLANTHRENE  
 CARCINOGENS PHENO BARBITAL LUNG KIDNEY SPLEEN HEART LIVER  
 BENZPHETAMINE N DEMETHYLASE CYTOCHROME P-450 GROWTH RATE  
 MICROSOAL ENZYMES HISTOLOGY

Concept Codes: MICROSCOPY-HISTOL,HISTOCHEM TECH(01056);  
 BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); BIOCHEM  
 STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-PROTEINS,PEPTID-  
 ES,AMINO ACD(10064); BIOCHEM STUD-PORPHYRNS,BILE PIGM(10065);  
 BIOPHYS-MEMBRANE PHENOMENA(10508); ENZYMES-GEN,COMPAR STUD,CO-  
 ENZYMES(10802); ENZYMES-PHYSIOLOGICAL STUDIES(10808); ANATOMY/-  
 HISTOL-MICRO,ULTRAMICRSC(11108); METABOLISM-PROTNS,PEPTDS,AM  
 ACDS(13012); METABOLISM-PORPHYRINS,BILE PIGMN(13013); DIGESTI-  
 VE SYST-PATHOLOGY(\*14006); CARDIOVASC SYST-PHYSIOL,BIOCHEM(14-  
 504); BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); URIN SYST/EXT  
 SECR-PATHOLOGY(15506); RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004)  
 ; PHARMACOL-DRUG METAB,METAB STIMU(\*22003); PHARMACOL-NEUROPH-  
 ARMACOLGY(22024); TOXICOL-PHARMACOLOGICAL(\*22504); TOXICOL-E-  
 NVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(-  
 \*24007); DEVELOPMNTL BIOL-GEN MORPHGENSIS(25508); ENVIRON  
 HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL  
 POLLN(\*37015)

Biosystematic Codes: MURIDAE(86375)

76033159

## ACUTE LIVER INJURY BY VINYL CHLORIDE INVOLVEMENT OF ENDOPLASMIC RETICULUM IN PHENO BARBITAL PRE TREATED RATS

REYNOLDS E S; JAEGER R J; MURPHY S D

ENVIRON HEALTH PERSPECT 11. 1975 227-233 Coden: EVHPA

Descriptors: VINYL CHLORIDE MONOMER CARCINOGEN HEPATO  
 TOXICITY NECROSIS ULTRASTRUCTURE MIXED FUNCTION OXIDASE SYSTEM  
 LIGHT MICROSCOPY ELECTRON MICROSCOPY

Concept Codes: MICROSCOPY-HISTOL,HISTOCHEM TECH(01056);  
 ELECTRON MICROSCOPY(01058); CYTOLOGY/CYTOCHEM-ANIMAL(02506);  
 BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); BIOCHEM  
 STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-PROTEINS,PEPTID-  
 ES,AMINO ACD(10064); BIOPHYS-MEMBRANE PHENOMENA(\*10508);  
 ENZYMES-PHYSIOLOGICAL STUDIES(10808); ANATOMY/HISTOL-MICRO,UL-  
 TRAMICRSC(\*11108); PATHOLOGY-NECROSIS(12510); DIGESTIVE  
 SYST-PATHOLOGY(\*14006); PHARMACOL-DRUG METAB,METAB STIMU(\*220-  
 03); PHARMACOL-NEUROPHARMACOLGY(22024); TOXICOL-PHARMACOLOGI-  
 CAL(\*22504); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NE-  
 OPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL  
 HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: MURIDAE(86375)

## EXPOSURE TO HALOGENATED HYDRO CARBONS IN THE INDOOR ENVIRONMENT

BRIOBORD K; BRUBAKER P E; GAY B JR; FRENCH J G

ENVIRON HEALTH PERSPECT 11. 1975 215-220 Coden: EVHPA

Descriptors: HUMAN VINYL CHLORIDE CARCINOGEN AIR POLLUTION  
 AEROSOL PRODUCTS PROPELLANTS FREONS ISO BUTANE PROPANE TRI  
 CHLORO ETHANE METHYLENE CHLORIDE CARBON TETRA CHLORIDE 1 1 1  
 TRI CHLORO ETHANE 1 1 2 TRI CHLORO ETHANE TETRA CHLORO  
 ETHYLENE TRI CHLORO-1 2 TRI CHLORO ETHANE TETRA CHLORO  
 ETHYLENE ETHYLENE CARDIAC ARRHYTHMIA CARBON MON OXIDE  
 METABOLISM

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL  
 BIOL/HUMAN ECOLOGY(05500); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07-  
 504); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060);  
 PATHOLOGY-GENERAL STUDIES(12502); METABOLISM-PROTNS,PEPTDS,AM  
 ACDS(13012); URIN SYST/EXT SECR-PATHOLOGY(15506); TOXICOL-ENV-  
 IRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*2-  
 4007); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

76033153

## EXPERIMENTAL TOXICOLOGY OF PYROLYSIS AND COMBUSTION HAZARDS

CORNISH H H; HAHN K J; BARTH M L

ENVIRON HEALTH PERSPECT 11. 1975 191-196 Coden: EVHPA

Descriptors: RAT HUMAN RED DAK WOOL COTTON POLY PROPYLENE  
 POLY VINYL CHLORIDE URETHANE ACRYLONITRILE BUTADIENE STYRENE  
 MORTALITY

Concept Codes: BIOCHEM STUD-GENERAL(10060); EXTERN  
 EFF-HOT(\*10618); PATHOLOGY-NECROSIS(12510); INTEGUMENT  
 SYST-GENL STUDS,METHS(18501); TOXICOL-GENL/EXP STUDS,METHS(\*2-  
 2501); TEMPERATURE-GENL,METHS(\*23001); TEMPERATURE-THERMOPATH-  
 OLOGY(\*23007); AGRONOMY-FIBER CROPS(52508); FORESTRY AND  
 FOREST PRODUCTS(53500)

Biosystematic Codes: FAGACEAE(26070); MALVACEAE(26330);  
 ARTIODACTYLA-UNSPECIFIED(85705); HOMINIDAE(86215); MURIDAE(86-  
 375)

76033157

76033147

BIOCHEMICAL TOXICOLOGY OF UNSATURATED HALOGENATED MONOMERS  
 JAEGER R J; CONOLLY R B; REYNOLDS E S; MURPHY S D  
 ENVIRON HEALTH PERSPECT 11. 1975 121-128 Coden: EVHPA  
 Descriptors: RAT HUMAN WORKERS VINYL CHLORIDE MONOMER  
 CARCINOGEN 1 1 DI CHLORO ETHYLENE 1 1 DI BROMO ETHYLENE 2  
 CHLORO-1 3 BUTADIENE 1 1 DI FLUORO ETHYLENE DI ETHYL MALEATE  
 GLUTATHIONE DEPLETION CIRCADIAN RHYTHM SERUM TRANS AMINASE  
 SORBITOL DEHYDROGENASE FASTING ALCOHOLISM DIABETES HEPATO  
 TOXICITY

Concept Codes: BEHAVIOR BIOL-HUMAN BEHAVIOR(07004);  
 CIRCADIAN RHYTHM/PERIODIC CYCLES(07200); BIOCHEM-GASES(10012)  
 ; BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS, PEPTIDES-  
 AMINO ACD(10064); ENZYMES-PHYSIOLOGICAL STUDIES(10808);  
 METABOLISM-CARBOHYDRATES(13004); METABOLISM-PROTNS, PEPTDS, AM  
 ACDS(13012); METABOLISM-METABOLIC DISORDERS(13020); NUTRITION-  
 GENL, NUTR STATUS, METHS(13202); DIGESTIVE SYST-PATHOLOGY(14-  
 006); BLOOD/BODY FLDS-BLOOD, LYMPH STUO(15002); ENDOCRINE  
 SYST-PANCREAS(17008); PSYCHIATRY-ADDICTION(INC SMOKNG)(21004);  
 TOXICOL-GENL/EXP STUOS, METHS(22501); TOXICOL-ENVIRONMNTL, INDU-  
 STR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON  
 HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

76033142

PRELIMINARY STUDIES ON THE FATE OF INHALED VINYL CHLORIDE  
 MONOMER IN RATS

HEFNER R E JR; WATANABE P G; GEHRING P J  
 ENVIRON HEALTH PERSPECT 11. 1975 85-95 Coden: EVHPA  
 Descriptors: HUMAN WORKERS PYRAZOLE SKF-525-A 2-DI  
 ETHYLAMINOETHYL-2 2-DIPHENYL VALERATE HYDRO CHLORIDE  
 METAB-DRUGS ETHANOL METABOLISM ALCOHOL DEHYDROGENASE LIVER  
 GLUTATHIONE CYSTEINE

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500);  
 BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); BIOCHEM  
 STUD-PROTEINS, PEPTIDES, AMINO ACD(10064); ENZYMES-PHYSIOLOGICAL  
 STUDIES(10808); METABOLISM-GENL STUD, METAB PATHW(+13002);  
 METABOLISM-PROTNS, PEPTDS, AM ACDS(13012); DIGESTIVE SYST-PHYSI-  
 OL, BIOCHEM(14004); DIGESTIVE SYST-PATHOLOGY(+14006); RESPIRAT-  
 ORY SYST-GENL STUD, METHS(16001); PHARMACOL-DRUG METAB, METAB  
 STIMU(22003); ROUTES OF IMMUNIZ, INFECT, THERAP(22100);  
 TOXICOL-GENL/EXP STUOS, METHS(22501); TOXICOL-ENVIRONMNTL, INDU-  
 STR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON  
 HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR, WATR, SL  
 POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

76033141

CANCER MORTALITY IN USA COUNTIES WITH PLASTICS AND RELATED  
 INDUSTRIES

MASON T J

ENVIRON HEALTH PERSPECT 11. 1975 79-84 Coden: EVHPA  
 Descriptors: HUMAN VINYL CHLORIDE SYNTHETIC RUBBER SYNTHETIC  
 FIBER INDUSTRIES CARCINOGENESIS LIVER ANGIO SARCOMA MULTIPLE  
 MYELOMA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-N-  
 ECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC  
 SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-BLD, LYM, RES  
 PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS, RES(15008);  
 BONE, JNTS, FASC, CONN/ADIP-PATHOL(18006);  
 TOXICOL-ENVIRONMNTL, INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CAR-  
 CINOGENS(+24007); NEOPLSMS/NEOPL AGNTS-BLOOD, RES(+24010); PUB  
 HEALTH-ADMINISTR, STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL  
 HEALTH(+37013); EPIDEMIOLOG-ORGANIC DIS, NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

76033140

PROPORTIONAL MORTALITY AMONG VINYL CHLORIDE WORKERS

MONSON R R; PETERS J M; JOHNSON M N  
 ENVIRON HEALTH PERSPECT 11. 1975 75-77 Coden: EVHPA  
 Descriptors: HUMAN CARCINOGEN DIGESTIVE LIVER LUNG BRAIN  
 HEMATOPOIETIC VASCULAR CANCERS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); PATHOLOGY-NECROSIS(12510); DIGESTIVE  
 SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+1450-  
 8); BLOOD/BODY FLDS-BLD, LYM, RES PATH(+15006); BLOOD/BODY  
 FLDS-LYMPHAT TISS, RES(15008); RESPIRATORY SYST-PATHOLOGY(+160-  
 06); NERVOUS SYST-PATHOLOGY(+20506); TOXICOL-ENVIRONMNTL, INDU-  
 STR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007);  
 NEOPLSMS/NEOPL AGNTS-BLOOD, RES(+24010); PUB HEALTH-ADMINISTR, -  
 STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
 EPIDEMIOLOG-ORGANIC DIS, NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

76033138

INDUSTRIAL PREPARATION OF POLY VINYL CHLORIDE

COHAN G F  
 ENVIRON HEALTH PERSPECT 11. 1975 53-57 Coden: EVHPA  
 Descriptors: HUMAN OCCUPATIONAL EXPOSURE VINYL CHLORIDE  
 MONOMER CARCINOGENS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500);  
 BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); TOXICOL-EN-  
 VIRONMNTL, INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+2-  
 4007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON  
 HEALTH-AIR, WATR, SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

E(86215)

76033137

## LOW MOLECULAR WEIGHT COMPONENTS OF POLYMERS USED IN PACKAGING

GILBERT S G

ENVIRON HEALTH PERSPECT 11. 1975 47-52 Coden: EVHPA

Descriptors: HUMAN FOODS DRUGS POLY VINYL CHLORIDE VINYL CHLORIDE MONOMER CARCINOGENS RESIDUES ADDITIVES

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(-10506); METABOLISM-GENL STUD,METAB PATHW(13002); FOOD TECH-GENL STUDS,METHS(+13502); FOOD TECH-EVALNS PHYS,CHEM PROPS(+13530); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); PHARMACOL-GENERAL STUDIES(+22002); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); TOXICOL-PHARMACOLOGICAL(+22504); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007)

Biosystematic Codes: HOMINIDAE(86215)

76028371

## PRE SYMPTOMATIC DETECTION OF LIVER CHANGES IN VINYL CHLORIDE MONOMER WORKERS

WILLIAMS D M J; TAYLOR K J W; CROSSLEY I R; SMITH P M; DUCK B W

DIGESTION 12 (4-6). 1975 362 Coden: DIGEB

Descriptors: ABSTRACT HUMAN PORTAL HYPERTENSION THROMBOCYTOPENIA SPLENOMEGALY LIVER FUNCTION TESTS GRAY SCALE

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); CLIN BIOCHEM-GENL STUDIES(10006); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); PATHOLOGY-DIAGNOSTIC(+12504); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(14508); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY FLDS-BLD,LYM,RES PATH(15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

76026620

## MUTAGENICITY RESEARCH AND TESTING IN SWEDEN

RAMEL C

MUTAT RES 33 (1). 1975 79-86 Coden: MUREA

Descriptors: HUMAN LEGISLATION ENVIRONMENTAL TOXICOLOGY POLY CHLORINATED BI PHENYL VINYL CHLORIDE

Concept Codes: GENL BIOL-INSTITUT,ADMIN,LEGISLN(00508); GENETICS/CYTOGENET-GENL STUDIES(+03502); GENETICS/CYTOGENET-HUMAN(+03508); BIOCHEM STUD-GENERAL(10060); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(24007); PUB HEALTH-ADMINISTR,STATISTICS(+37010)

Biosystematic Codes: ORGANISMS-UNSPECIFIED(00500); HOMINIDAE

76026617

## EPIDEMIOLOGICAL STRATEGIES FOR IDENTIFYING CARCINOGENS

JANERICH D T; LAWRENCE C E

MUTAT RES 33 (1). 1975 55-63 Coden: MUREA

Descriptors: HUMAN OCCUPATIONAL HEALTH POLY VINYL CHLORIDE LIVER ANGIO SARCOMA DI ETHYL STILBESTROL VAGINAL CANCER

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-STEROLS,STEROIDS(10067); DIGESTIVE SYST-PATHOLOGY(14006); CARDIOVASC SYST-BLD VESS PATHOL(14508); REPRODUCT SYST-PATHOLOGY(16506); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); PHARMACOL-CLINICAL PHARMACOL(22005); PHARMACOL-ENDOCRINE SYST(+22016); PHARMACOL-REPRODUCT SYST,IMPLANT(+22028); TOXICOL-GENL/EXP STUDS,METHS(22501); TOXICOL-PHARMACOLOGICAL(+22504); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

76023350

## PLASTICS IN THE MARINE ENVIRONMENT

CUNDELL A M

ENVIRON CONSERV 1 (1). 1974 (RECD 1975) 63-68 Coden: EVCNA

Descriptors: WATER POLLUTION POLY ETHYLENE POLY VINYL CHLORIDE POLY STYRENE POLY URETHANE ACCUMULATION DISTRIBUTION ENVIRONMENT

Concept Codes: ECOLOGY-GENL STUDIES,METHODS(07502); ECOLOGY-OCEANOGRAPHY(+07512); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM STUD-GENERAL(10060); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

76020134

## VINYL CHLORIDE CARCINOGENESIS

DUCK B W

BR J CANCER 32 (2). 1975 260 Coden: BJCAA

Descriptors: ABSTRACT HUMAN OCCUPATIONAL EXPOSURE LIVER  
ANGIO SARCOMAConcept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006);  
CARDIOVASC SYST-BLD VESS PATHOL(+14508); BONE,JNTS,FASC,CONN/-  
ADIP-PATHOL(18006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOP-  
LSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL  
HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

76015258

HEPATO TOXICITY OF VINYL CHLORIDE AND 1,1-DICHLOROETHYLENE  
REYNOLDS E S; TREINEN MOSLEN M; SZABO S; JAEGER R J; MURPHY  
S D

AM J PATHOL 81 (1). 1975 219-236 Coden: AJPA

Descriptors: RAT PHENO BARBITAL AROCLOR 1254 CARCINOGENS  
OCCUPATIONAL EXPOSURE INSECTICIDE RESIDUE CYTOCHROME P-450  
INDUCTION NADPH REDUCTION ENDOPLASMIC RETICULUM MITOCHONDRIAL  
CHROMATIN PLASMA MEMBRANE INJURYConcept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(+02506); GENETICS/C-  
YTOGENET-ANIMAL(+03506); BIOCHEM STUD-GENERAL(10060); BIOCHEM  
STUD-NUCL ACD,PURINS,PYRM(10062); BIOCHEM STUD-PROTEINS,PEPTID-  
ES,AMINO ACD(10064); BIOCHEM STUD-PORPHYRINS,BILE PIGM(10065);  
MINERALS(10069); REPLICATN,TRANSCRIPTN,TRANSLATN(10300); BIOP-  
HYS-MEMBRANE PHENOMENA(+10508); ENZYMES-GEN,COMPAR STUD,COENZ-  
YMS(+10802); ENZYMES-PHYSIOLOGICAL STUDIES(+10808); METABOLIS-  
M-PROTNS,PEPTDS,AM ACDS(+13012); METABOLISM-PORPHYRINS,BILE  
PIGM(+13013); METABOLISM-NUCL ACD,PURINS,PYRM(13014);  
DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLDS-BLOOD,LYMPH  
STUD(15002); PHARMACOL-DRUG METAB,METAB STIMU(22003);  
TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-PHARMACOLOGICAL-  
(+22504); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL  
AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+3-  
7013); PEST CONTRL GENL/PESTICS/HERBICS(54600); ECONOM  
ENTOMOL-CHEM PHYS CONTRL(60016)Biosystematic Codes: MURIDAE(86375); ABSTRACTS OF  
ENTOMOLOGY(96000)

76008864

## CONTEMPORARY WORK RELATED ENVIRONMENTAL DISEASES

TRIEFF N M; CORRIGAN G E

TEX REP BIOL MED 33 (1). 1975 107-144 Coden: TRBMA

Descriptors: HUMAN DIAGNOSIS TREATMENT TOXIC MATERIALS  
PNEUMOCONIOSES ANGIO SARCOMA VINYL CHLORIDE RESPIRATORY  
CARCINOMA HALO ETHERConcept Codes: BIOCHEM STUD-GENERAL(10060); PATHOLOGY-DIAGN-  
OSTIC(12504); PATHOLOGY-THERAPY(12512); CARDIOVASC SYST-BLDVASC PATHOL(+14508); RESPIRATORY SYST-PATHOLOGY(+16006);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CAR-  
CINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

76008536

A PRELIMINARY REPORT OF A VASCULAR ABNORMALITY OCCURRING IN  
MEN ENGAGED IN THE MANUFACTURE OF POLY VINYL CHLORIDE

WALKER A E

BR J DERMATOL SUPPL 93 (11). 1975 22-23 Coden: BJDSA

Descriptors: ABSTRACT ACRO OSTEOLYSIS ACRO CYANOSIS  
OCCUPATIONAL HAZARDSConcept Codes: BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL--  
RADIOLOGIC(11106); CHORDATE BODY REGNS-EXTREMITIES(11318);  
PATHOLOGY-DIAGNOSTIC(12504); DIGESTIVE SYST-PATHOLOGY(14006);  
CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-BLD  
VASS PATHOL(+14508); BLOOD/BODY FLDS-BLD,LYM,RES PATH(15006);  
BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); RESPIRATORY  
SYST-PATHOLOGY(16006); REPRODUCT SYST-PATHOLOGY(16506); MUSCLE  
SYST-PATHOLOGY(17506); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006);  
INTEGUMENT SYST-GENL STUDS,METHS(18501); INTEGUMENT  
SYST-PATHOLOGY(+18506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506);  
TEMPERATURE-THERMOREGULATION(23012); NEOPLSMS/NEOPL AGNTS-PAT-  
H,CLINIC(+24004); IMMUNOL/IMMUNOCHEM-GEN METH(34502); ENVIRON  
HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

76006857

TISSUE TOXICITY OF POLYMERS THE IMPORTANCE OF SAMPLE  
STANDARDIZATION

MATLAGA B F; YASENCHAK L P; SALTHOUSE T N

TOXICOL APPL PHARMACOL 33 (1). 1975 153 Coden: TXAPA

Descriptors: ABSTRACT RAT POLY ETHYLENE POLY PROPYLENE POLY  
URETHANE SILICONE POLY VINYL CHLORIDE LYSOSOMAL ENZYME  
ACTIVITY HYDROLASE ACID PHOSPHATASE AMINO PEPTIDASE SURGICAL  
MATERIALS DRUG RELEASE AGENTSConcept Codes: MICROSCOPY-HISTOL,HISTOCHEM TECH(01056);  
CYTOLOGY/CYTOCHEM-ANIMAL(02506); BIOCHEM STUD-GENERAL(10060);  
BIOPHYS-BIOCYBERNETICS(+10515); ENZYMES-PHYSIOLOGICAL STUDIES-  
(10808); ANATOMY/HISTOL-SURGERY(11105); PATHOLOGY-GENERAL  
STUDIES(+12502); PHARMACOL-GENERAL STUDIES(22002); PHARMACOL--  
DRUG METAB,METAB STIMU(22003); TOXICOL-GENL/EXP STUDS,METHS(+  
22501)

Biosystematic Codes: MURIDAE(86375)

76006839

## UPTAKE AND PHARMACODYNAMICS OF VINYL CHLORIDE ADMINISTERED TO RATS BY DIFFERENT ROUTES

WITHEY R J

TOXICOL APPL PHARMACOL 33 (1). 1975 146 Coden: TXAPA

Descriptors: ABSTRACT HUMAN HEALTH HAZARD CARCINOGEN FOOD CONTAMINATION ANGIO SARCOMA JUGULAR CANNULATION GASTRIC INTUBATION BLOOD CONCENTRATION

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); METABOLISM-GENL STUD,METAB PATHW(\*13002); FOOD TECH-GENL STUDS,METHS(\*13502); DIGESTIVE SYST-GENL STUDS,METHS(\*14001); CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(\*15002); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); ROUTES OF IMMUNIZ,INFECT,THERAP(\*22100); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-FOOD,RESIDS,ADD-IT,PRESRV(\*22502); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-BIOCHEM(\*24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-MISCELL STUDS(\*37019)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

76006808

## RESULTS OF A VINYL CHLORIDE TERATOLOGY STUDY IN MICE RATS AND RABBITS

SCHWETZ B A; LEONG B K J; SMITH F A; BALMER M; GEHRING P J

TOXICOL APPL PHARMACOL 33 (1). 1975 134 Coden: TXAPA

Descriptors: ABSTRACT NEGATIVE TERATOGEN ETHANOL SKELETAL MALFORMATIONS CLEFT PALATE PREGNANCY RATE CESAREAN SECTION

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-EXPERIMENTAL(11104); PATHOLOGY-COMPARATIVE(\*12503); PATHOLOGY-NECROSIS(12510); NUTRITION-GENL,NUTR STATUS,METHS(13202); RESPIRATORY SYST-GENL STUD,METHS(16001); REPRODUCT SYST-GENL STUDS,METHS(16501); REPRODUCT SYST-PHYSIO-L,BIOCHEM(16504); BONE,JNTS,FASC,CONN/ADIP-PATHOL(\*18006); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); DENTAL/ORAL BIOL-PATHOLOGY(\*19006); PSYCHIATRY-ADDICTION(INC SMOKNG)(2100-4); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(\*22501); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(24007); DEVELOPMNTL BIOL-GEN MORPHGENSIS(\*25508); DEVELOPMNTL BIOL-EXPER TERATOL(\*25554)

Biosystematic Codes: LEPORIDAE(86040); MURIDAE(86375)

76006807

## ACUTE INHALATION TOXICITY OF VINYL CHLORIDE MONOMER MORPHOLOGIC AND BIOCHEMICAL EFFECTS OF PRE TREATMENT WITH INDUCERS OF HEPATIC MIXED FUNCTION OXIDASE SYSTEM

MOSLEN M T; JAEGER R J; SZABO S; REYNOLDS E S

TOXICOL APPL PHARMACOL 33 (1). 1975 133-134 Coden: TXAPA

Descriptors: ABSTRACT RAT PHENO RABBITAL METHYL CHOL ANTIPLATELET

## AROCLOR 1254 CARCINOGENS INSECTICIDE RESIDUE

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); MINERALS(10069); ENZYMES-PHYSIOLOGICAL STUDIES(\*10808); DIGESTIVE SYST-PATHOLOGY(\*14006); RESPIRATORY SYST-PHYSIO-L,BIOCHEM(16004); PHARMACOL-DRUG METAB,METAB STIMU(\*22003); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL--PHARMACOLOGICAL(\*22504); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-BIOCHEM(\*24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); PEST CONTRL GENL/PESTICS/HERBICS(54600); ECONOM ENTOMOL-CHEM PHYS CONTRL(60016)

Biosystematic Codes: MURIDAE(86375); ABSTRACTS OF ENTOMOLOGY(96000)

76006806

## INHALATION TOXICITY STUDIES OF VINYL CHLORIDE MONOMER IN PHENO BARBITAL OR AROCLOR 1254 PRE TREATED RATS

JAEGER R J; REYNOLDS E S; SZABO S; MOSLEN M T; MURPHY S D

TOXICOL APPL PHARMACOL 33 (1). 1975 133 Coden: TXAPA

Descriptors: ABSTRACT MOUSE HUMAN CARCINOGEN METAB-DRUGS INSECTICIDE RESIDUE LIVER ANGIO SARCOMA SERUM ALANINE ALPHA KETO GLUTARATE TRANS AMINASE ELEVATION

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); MINERALS(10069); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); ENZYMES-PHYSIOLOGICAL STUDIES(\*10808); DIGESTIVE SYST-PATHOLOGY(\*14006); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); RESPIRATORY SYST-PHYSIO-L,BIOCHEM(16004); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); PHARMACOL-DRUG METAB,METAB STIMU(\*22003); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(22506); NEOPLSMS/NEOPL AGNTS-BIOCHEM(\*24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); PEST CONTRL GENL/PESTICS/HERBICS(54600); ECONOM ENTOMOL-CHEM PHYS CONTRL(60016)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375); ABSTRACTS OF ENTOMOLOGY(96000)

60067569

FOREIGN BODY TUMORIGENESIS INDUCED BY GLASS AND SMOOTH AND ROUGH PLASTIC COMPARATIVE STUDY OF PRE NEOPLASTIC EVENTS

BRAND K G; BUDEN L C; BRAND I

J NATL CANCER INST 55 (2). 1975 319-322. Coden: JNCIA

Descriptors: MOUSE VINYL CHLORIDE VINYL ACETATE CO POLYMER CARCINOGEN

Concept Codes: GENETICS/CYTOGENET-ANIMAL(03506); BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); EXTERN EFF-PHYSICAL,MECH EFFECTS(+10612); ANATOMY/HISTOL-REGEN,TRANSPLANT(11107); PATHOLOGY-GENERAL STUDIES(12502); INTEGUMENT SYST-GENL STUDS,METHS(10501); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+2-2501); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); LABORATORY ANIMALS-GENL STUDS(28002)

Biosystematic Codes: MURIDAE(86375)

60066216

DETERMINATION OF IONIC CALCIUM IN APPLE JUICE USING A POLY VINYL CHLORIDE MEMBRANE CALCIUM ION SELECTIVE ELECTRODE

COOKE D T

COMMUN SOIL SCI PLANT ANAL 6 (5). 1975 501-512. Coden: CSOSA

Descriptors: LOW PH

Concept Codes: COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM METH-MINERALS(+10059); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-MEMBRANE PHENOMENA(10508); BIOPHYS-BIOENGINEERING(105-11); FOOD TECH-FRUIT, NUTS, VEGETABLES(+13504); FOOD TECH-EVALNS PHYS,CHEM PROPS(+13530); PLANT PHYSIOL-CHEM CONSTITUENTS(51522); HORTICULT-TEMP ZONE FRUIT, NUTS(53002)

Biosystematic Codes: ROSACEAE(26675)

60063958

TRACE DETERMINATION OF VINYL CHLORIDE BY A CONCENTRATOR GAS CHROMATOGRAPHY SYSTEM

AHLSTROM D H; KILGOUR R J; LIEBMAN S A

ANAL CHEM 47 (8). 1975 1411-1412. Coden: ANCHA

Descriptors: HUMAN INDUSTRIAL AIR POLLUTION

Concept Codes: GENL BIOL-INFRMTN,DOCU,COMP APPL(00530); GENERAL FIELD METHODS(+01008); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); EXTERN EFF-HOT(10618); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TEMPERATURE-GENL,METHS(23001); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

60062163

ANALYSIS OF VINYL CHLORIDE BY MASS FRAGMENTOGRAPHY

ROSEN J D; MORANO J R; PARELES S R; GIACIN J R; GILBERT S G  
J ASSOC OFF ANAL CHEM 58 (4). 1975 700-702. Coden: JANCA

Descriptors: CARCINOGEN

Concept Codes: BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-MISCELL STUDS(+37019)

Biosystematic Codes: CHORDATA-UNSPECIFIED(85000)

60058715

PLATELET STORAGE AT 22 CELSIUS ROLE OF GAS TRANSPORT ACROSS PLASTIC CONTAINERS IN MAINTENANCE OF VIABILITY

MURPHY S; GARDNER F H

BLOOD 46 (2). 1975 209-218. Coden: BLOOA

Descriptors: HUMAN POLY VINYL CHLORIDE POLY ETHYLENE GLYCOLYSIS CHROMIUM-51

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); RADIATION BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-CARBOHYDR.(10068); MINERALS-(10069); BIOPHYS-GENERAL STUDIES(10502); BIOPHYS-MOLECUL PROP,MACROMOLEC(+10506); EXTERN EFF-TEMPERATURE(+10614); MOVEMENT(12100); METABOLISM-GENL STUD,METAB PATHW(13002); METABOLISM-ENERGY,RESPIRATION(13003); METABOLISM-CARBOHYDRATES(13004); BLOOD/BODY FLDS-GENL STUDS,METHS(+15001); BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004); TEMPERATURE-HYPO,HYPERTHERMIA(+23006)

Biosystematic Codes: HOMINIDAE(86215)

60058261

AN APPROACH TO THE NUMERICAL QUANTITATION OF ACUTE TISSUE RESPONSE TO BIO MATERIALS

SALTHOUSE T N; MATLAGA B F

BIOMATER MED DEVICES ARTIF ORGANS 3 (1). 1975 47-56.  
Codon: BMDDA

Descriptors: RAT IMPLANT HISTO TOXICITY POLY VINYL CHLORIDE ORGANO TIN STABILIZER HYDROLYTIC ENZYME ACTIVITY MICRO PHOTOMETRY

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); BIOCHEM METH-PROTNS,PEPTOS,AM AC(10054); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(10504); ENZYMES-METHODS(+10804); ANATOMY/HISTOL-REGEN,TRANSPLANT(+11107); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(+11108); TOXICOL-GENL/EXP STUDS,METHS(+22501)

Biosystematic Codes: MURIDAE(86375)

60058179

STUDY OF THE TOXICITY OF VOLATILE PRODUCTS LIBERATED DURING BURNING OF POLYMERIC MATERIALS SYNTHESIZED ON A POLY VINYL CHLORIDE BASE

EITINGON A I; SOLOV'EVA T V; GRIBUNOVA G P; NAUMOVA L S  
GIG SANIT (2). 1975 104-106. Codon: GISAA

Descriptors: MOUSE CARBON DI OXIDE CARBON MON OXIDE HYDROGEN CHLORIDE CHLORINATED HYDRO CARBONS AROMATIC HYDRO CARBONS ALDEHYDES ALCOHOLS MINIMUM EXPOSURE TIME

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-HOT(10618); PATHOLOGY-NECROSIS(12510); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TEMPERATURE-GENL,METHS(23001); PUB HEALTH-ADMINISTR,STATISTIC-S(+37010); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: MURIDAE(86375)

60056000

VINYL CHLORIDE DETECTION USING CARBON MON OXIDE AND CARBON DI OXIDE IR LASERS

FREUND S M; SWEGAR D M

ANAL CHEM 47 (6). 1975 930-932. Codon: ANCHA

Descriptors: CARCINOGEN STARK SPECTROSCOPY

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); EXTERN EFF-LIGHT,DARKNESS(10604); EXTERN EFF-PRESSURE(10606); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(37013)

Biosystematic Codes: CHORDATA-UNSPECIFIED(85000)

60055914

FOREIGN BODY TUMORIGENESIS BY VINYL CHLORIDE VINYL ACETATE CO POLYMER NO EVIDENCE FOR CHEMICAL CO CARCINOGENESIS

BRAND K G; BUONEN L C; BRAND I

J NATL CANCER INST 54 (5). 1975 1259-1262. Codon: JNC1A

Descriptors: MOUSE CARCINOGEN

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); ANATOMY/HISTOL-REGEN,TRANSPLANT(11107); PATHOLOGY-GENERAL STUDIES(12502); TOXICOL-GENL/EXP STUDS,METHS(+22501); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); LABORATORY ANIMALS-GENL STUDS(28002)

Biosystematic Codes: MURIDAE(86375)

60052925

SOME INTERACTIONS OF BLOOD WITH TUBULAR BIO MATERIALS

MASON R G; ZUCKER W H; SHINODA B A

BIOMATER MED DEVICES ARTIF ORGANS 3 (1). 1975 57-96.

Codon: BMDDA

Descriptors: HUMAN ASPIRIN DEXTRAN HEPARIN WARFARIN HEMATOL-DRUGS METAB-DRUGS ALBUMIN LIPO PROTEIN PROTEIN POLY SACCHARIDE POLY ETHYLENE POLY VINYL CHLORIDE SILASTIC TUBING INTRINSIC COAGULATION SYSTEM CELL COUNTS

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOCHEM STUD-LIPIOS(10066); BIOCHEM STUD-CARBOHYD-R.(10068); BIOPHYS-BIOENGINEERING(+10511); BLOOD/BODY FLDS-GENL STUDS,METHS(15001); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(+15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); PHARMACOL-DRUG METAB,METAB STIMU(22003); PHARMACOL-BLOOD,HEMA-TO AGENTS(+22008)

Biosystematic Codes: HOMINIDAE(86215)

60052298

## RETROSPECTIVE SURVEY OF THE ALLEGED DISEASES ASSOCIATED WITH VINYL CHLORIDE IN WEST GERMANY

THIESS A M; FRENTZEL-BEYME R

J OCCUP MED 17 (7). 1975 430-432. Coden: JOCMA

Descriptors: HUMAN OCCUPATION MORTALITY MORBIDITY HEM ANGIO  
 ENDOTHELIO SARCOMA MAXIMUM WORK PLACE CONCENTRATIONS  
 EPIDEMIOLOGY BONE LIVER LUNG ESOPHAGUS SPLEEN CIRCULATION  
 THROMBOCYTOPENIA RISK

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); MATHEMATIC  
 BIOL/STATISTIC METH(04500); PATHOLOGY-GENERAL STUDIES(+12502);  
 PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(14006);  
 CARDIOVASC SYST-BLD VESS PATHOL(14508); BLOOD/BODY FLDS-BLOOD  
 CELL STUDS(15004); BLOOD/BODY FLDS-BLD,LYM,RES PATH(15006);  
 BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); RESPIRATORY  
 SYST-PATHOLOGY(16006); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-PAT-  
 H,CLINIC(24004); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB  
 HEALTH-ADMINISTR,STATISTICS(+37010); ENVIRON HEALTH-OCCUPATNL  
 HEALTH(+37013); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

60050274

## B SPONTANEOUS PRIMARY MALIGNANT VASCULAR TUMORS OF THE LIVER IN 30000 AUTOPSIES

REIN F R; HUTH F

INT ARCH ARBEITSMED 34 (4). 1975 237-246. Coden: IAANB

Descriptors: HUMAN VINYL CHLORIDE CARCINOGEN OCCUPATIONAL  
 EXPOSURE ANGIO SARCOMA HEM ANGIO ENDOTHELIOMA HEM ANGIO PERI  
 CYTOMA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); ANATOMY/HIS-  
 TOL-MICRO,ULTRAMICRSC(11108); PATHOLOGY-DIAGNOSTIC(12504);  
 PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-GENL STUDS,METHS(14-  
 001); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-GENL  
 STUDS,METHS(14501); CARDIOVASC SYST-BLD VESS PATHOL(+14508);  
 BONE,JNTS,FASC,CONN/ADIP-GENL(18001);  
 BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-DIA-  
 GNS METH(24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007);  
 GERONTOLOGY(24500); PUB HEALTH-ADMINISTR,STATISTICS(37010);  
 ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); EPIDEMIOLOG-ORGANIC  
 DIS,NEOPLASMS(37054)

Biosystematic Codes: HOMINIDAE(86215)

60047795

## STABILITY OF AMPHOTERICIN B IN POLY VINYL CHLORIDE INTRA VENOUS INFUSION BAGS

TIPPLE M; SHADOMY S; ESPINEL-INGROFF A

AM REV RESPIR DIS 112 (1). 1975 145-146. Coden: ARDSB

Descriptors: GLASS LIGHT ACTIVITY LOSS

Concept Codes: BIOCHEM STUD-GENERAL(10060); EXTERN  
 EFF-LIGHT,DARKNESS(10604); PATHOLOGY-THERAPY(+12512); CARDIOV-  
 ASC SYST-GENL STUDS,METHS(14501); PHARMACOL-GENERAL  
 STUDIES(+22002); PHARMACOL-CLINICAL PHARMACOL(+22005); ROUTES  
 OF IMMUNIZ,INFECT,THERAP(22100); MED/CLIN MICROBIOL-GEN,METH,-  
 TECH(36001); CHEMOTHERAPY-GEN STUD,METH,METAB(+38502)  
 Biosystematic Codes: ABSTRACTS OF MYCOLOGY(95000)

60042526

## MERCURY CONCENTRATIONS IN OPEN OCEAN WATERS SAMPLING PROCEDURE

FITZGERALD W F; LYONS W B

LIMNOL OCEANOGR 20 (3). 1975 468-471. Coden: LIOCA

Descriptors: NORTHWEST ATLANTIC OCEAN POLY VINYL CHLORIDE  
 SAMPLER

Concept Codes: GENERAL FIELD METHODS(+01008); GENERAL FIELD  
 APPARATUS(+01010); ECOLOGY-OCEANOGRAPHY(+07512); ECOLOGY-WATR  
 RESRCH,FISHERY BIOL(07517); MINERALS(10069)

60040610

## TOXIC EFFECTS OF ALIPHATIC CHLORINATED BYPRODUCTS FROM VINYL CHLORIDE PRODUCTION ON MARINE ANIMALS

ROSENBERG R; GRAHN O; JOHANSSON L

WATER RES 9 (7). 1975 607-612. Coden: WATRA

Descriptors: GADUS-MORHUA CRANGON-CRANGON OPHRYOTROCHA-LAB-  
 RONICA REPRODUCTIVITY SURVIVAL

Concept Codes: ECOLOGY-OCEANOGRAPHY(+07512); ECOLOGY-AQUATIC  
 WILDLIFE MGMT(+07516); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517)  
 ; BIOCHEM STUD-GENERAL(10060); PATHOLOGY-COMPARATIVE(12503);  
 PATHOLOGY-NECROSIS(12510); REPRODUCT SYST-PATHOLOGY(+16506);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WATR,-  
 SL POLLN(+37015); INVERTB PHYSIOL-ANNELIDA(+64030); INVERTB  
 PHYSIOL-CRUSTACEA(+64054)

Biosystematic Codes: POLYCHAETA(65500); MALACOSTRACA(75112);  
 OSTEICHTHYES(85206)

60040121

## DETERMINATION OF VINYL CHLORIDE MONOMER AT THE SUB-PART-PER-MILLION LEVEL USING A PERSONAL MONITOR

MYERS S A; QUINN H J; ZOOK W C

AM IND HYG ASSOC J 36 (5). 1975 332-337. Coden: AIHAA

Descriptors: AIR POLLUTION GAS CHROMATOGRAPHY

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(10504); EXTERN EFF-HOT(10618); MOVEMENT(12100); RESPIRATORY SYST-GENL STUD,METHS(16001); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TEMPERATURE-GENL,METHS(23001); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

60038639

## ANGIO SARCOMA OF THE LIVER IN VINYL CHLORIDE POLY VINYL CHLORIDE WORKERS

LLOYD J W

J OCCUP MED 17 (5). 1975 333-334. Coden: JOCMA

Descriptors: USA HUMAN CARCINOGEN

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); PATHOLOGY-DIAGNOSTIC(12504); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PATHOL-OGY(+14006); CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BONE,JNTS,FASC,CONN/ADIP-GENL(18001); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-DIAGNS METH(24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); EPIDEMIOL-ORGANIC DIS,NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

60038608

## VINYL CHLORIDE EXPOSURE IN A CONTROLLED INDUSTRIAL ENVIRONMENT A LONG-TERM MORTALITY EXPERIENCE IN 594 EMPLOYEES

OTT M G; LANGNER R R; HOLDER B B

ARCH ENVIRON HEALTH 30 (7). 1975 333-339. Coden: AEHLA

Descriptors: HUMAN ANIMAL VINYLIDENE CHLORIDE CARCINOGENS  
ANGIO SARCOMA LIVER TUMORS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); EPIDEMIOL-ORGANIC DIS,NEOPLASMS(+37054)

Biosystematic Codes: MAMMALIA-UNSPECIFIED AND EXTINCT(85700); HOMINIDAE(86215)

60037552

## VINYL CHLORIDE EXPOSURE AND HUMAN CHROMOSOME ABERRATIONS

DUCATMAN A; HIRSCHHORN K; SELIKOFF I J

MUTAT RES SECT ENVIRON MUTAGEN RELAT SUBJ 31 (3). 1975 163-168. Coden: MREVB

Descriptors: OCCUPATIONAL HAZARD

Concept Codes: MICROSCOPY-CYTOLOG,CYTOCHEM TECH(01054); CYTOLOGY/CYTOCHEM-HUMAN(+02508); GENETICS/CYTOGENET-HUMAN(+03508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-MICRO,ULTR-AMICRSC(11108); BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TISS CULTURE-APPARAT,METHS,MEDIA(32500); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

60034812

## RESIDUAL ETHYLENE OXIDE LEVELS IN MEDICAL GRADE TUBING AND EFFECTS ON AN IN-VITRO BIOLOGIC SYSTEM

MCGUNNIGLE R C; RENNER J A; ROMANO S J; ABODEELY R A JR

J BIOMED MATER RES 9 (3). 1975 273-284. Coden: JBMRB

Descriptors: MOUSE L CELL CYTO TOXICITY POLY VINYL CHLORIDE  
POLY ETHER POLY URETHANE SILICONE TUBING AERATION TIME

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(+02506); COMPARATIVE BIOCHEM-GENL STUDIES(10010); BIOCHEM STUD-GENERAL(10060); BONE,JNTS,FASC,CONN/ADIP-GENL(18001); TOXICOL-GENL/EXP STUDS,METHS(+22501); TISS CULTURE-APPARAT,METHS,MEDIA(32500); DISINFECTION,DISINFECTANTS,STERL(+39500)

Biosystematic Codes: MURIDAE(86375)

60034698

## POLY VINYL CHLORIDE PYROLYSIS PRODUCTS A POTENTIAL CAUSE FOR RESPIRATORY IMPAIRMENT

POLAKOFF P L; LAPP L; REGER R

ARCH ENVIRON HEALTH 30 (6). 1975 269-271. Coden: AEHLA

Descriptors: HUMAN OCCUPATIONAL HAZARD COUGH PHLEGM HAY FEVER ASTHMA FORCED EXPIRATORY VOLUME FORCED EXPIRATORY FLOW.

Concept Codes: GENETICS/CYTOGENET-SEX DIFFERENC(03510); SOCIAL BIOL/HUMAN ECOLOGY(05500); BEHAVIOR BIOL-HUMAN BEHAVIOR(07004); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM STUD-GENERAL(10060); PHYSIOLOGY-GENERAL STUDIES(12002); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508); RESPIRATORY SYST-PATHOLOGY(+16006); PSYCHIATRY-ADDICTION(INC SMOKNG)(21004); TOXICOL-GENL/EXP STUDS,METHS(22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(34508); ALLERGY(35500); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); PALYNOLOGY(50100); PLANT PHYSIOL-CHEM CONSTITUENTS(51522)

Biosystematic Codes: PLANTAE-UNSPECIFIED(11000); SPERMATOPHYTA-UNSPECIFIED(25000); HOMINIDAE(86215)

60034337

## MODIFICATION OF A CHEMI LUMINESCENT OZONE MONITOR FOR THE MEASUREMENT OF GASEOUS UNSATURATED HYDRO CARBONS

QUICKERT N; FINDLAY W J; MONKMAN J L

SCI TOTAL ENVIRON 3 (4). 1975 323-328. Coden: STEVA

Descriptors: AIR POLLUTION OLEFINS ETHYLENE VINYL FLUORIDE VINYL CHLORIDE VINYL CYANIDE PROPYLENE BUTENES 1 3 BUTADIENE

Concept Codes: GENERAL FIELD APPARATUS(+01010); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM-GASES(+10012); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); TOXICOL-ENVIRONMNTL,INDUSTR(22506); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

60032603

## INTERNATIONAL AGENCY FOR RESEARCH ON CANCER MONOGRAPHS EVALUATION OF CARCINOGENIC RISK OF CHEMICAL TO MAN VOL 7 SOME ANTI THYROID AND RELATED SUBSTANCES NITRO FURANS AND INDUSTRIAL CHEMICALS

WARD E

IARC (INT AGENCY RES CANCER) MONOGR 1974 (RECD 1975) 326. Coden: IARMB

Descriptors: BOOK AMITROLE THIO UREA ETHYLENE THIO UREA METHYL THIO URACIL PROPYL THIO URACIL THIO ACETAMIDE THIO URACIL URETHANE BENZENE 2 AMINO-5-5-NITRO-2-FURYL-1 3 4 THIADIAZOLE TRANS-2 DI METHYLAMINOMETHYLMINO-5 2 5-NITRO-2-FURYL VINYL-1 3 4 OXADIAZOLE 2-2 FORMYLHYDRAZINO-4-5-NITRO-2-FURYL THIAZOLE 5 MORPHOLINOMETHYL-3 5 NITROFURFURYLIDENEAMINO-2 OXAZOLIDINONE 5 NITRO-2-FURALDEHYDE SEMI CARBAZONE 1-5 NITROFURFURYLIDENEAMINO-2

NITRO-2-FURYL-2-THIAZOLYL ACETAMIDE DI AZO METHANE VINYL CHLORIDE O DI CHLORO BENZENE P DI CHLORO BENZENE ETHYL METHANESULFONATE METHYL METHANESULFONATE CARCINOGENS

Concept Codes: GENL BIOL-BIBLIOGRAPHY(00526); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); MINERALS(10069); PATHOLOGY-GENERAL STUDIES(12502); PATHOLOGY-THERAPY(12512); ENDOCRINE SYST-THYROID(+17018); PHARMACOL-CLINICAL PHARMACOL(-22005); PHARMACOL-ENDOCRINE SYST(+22016); TOXICOL-PHARMACOLOGICAL(+22504); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-MISCELL STUDS(+37019); PEST CONTRL GENL/PESTICS/HERBICS(+54600); ECONOM ENTOMOL-CHEM PHYS CONTRL(60016)

Biosystematic Codes: HOMINIDAE(86215); ABSTRACTS OF ENTOMOLOGY(96000)

60028859

## GAS LIQUID CHROMATOGRAPHIC DETERMINATION OF VINYL CHLORIDE IN ALCOHOLIC BEVERAGES VEGETABLE OILS AND VINEGARS

WILLIAMS D T; MILES W F

J ASSOC OFF ANAL CHEM 58 (2). 1975 272-275. Coden: JANCA

Descriptors: PEANUT OIL POLY VINYL CHLORIDE PACKAGING

Concept Codes: BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); FOOD TECH-FRUIT,NUTS,VEGETABLES(13504); FOOD TECH-MALTS,BREWS,FERMENTATN(+13512); FOOD TECH-FATS,OILS(+13514); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); AGRONOMY-OIL CROPS(52514); HORTICULT-VEGETABLES(53008)

Biosystematic Codes: ANGIOSPERMAE-UNSPECIFIED(25200); LEGUMINOSAE(26260)

60028843

## THE HEURISTIC IMPORTANCE OF ENVIRONMENTAL PATHOLOGY LESIONS FROM THE VINYL CHLORIDE PROBLEM

POPPER H

ARCH PATHOL 99 (2). 1975 69-71. Coden: ARPAA

Descriptors: HUMAN OCCUPATION HAZARD CARCINOGEN HEPATIC FIBROSIS ANGIO SARCOMA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

60023097

## THE INDUSTRIAL TOXICOLOGY OF VINYL CHLORIDE A REVIEW

HOLMBERG B; MOLINA G

WORK-ENVIRON-HEALTH 11 (3). 1974 (RECD 1975) 138-144.

Codon: WEHRB

Descriptors: HUMAN OCCUPATIONAL HAZARD ANIMALS ACRO  
OSTEOLYSIS RAYNAUDS PHENOMENON SCLERODERMA LIVER DYS FUNCTION  
ANGIO SARCOMA TOXICITY CARCINOGENICITY

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
STUD-GENERAL(10060); CHORDATE BODY REGNS-EXTREMITIES(11318);  
PATHOLOGY-GENERAL STUDIES(12502); DIGESTIVE SYST-PATHOLOGY(+1-  
4006); CARDIOVASC SYST-BLD VESS PATHOL(+14508);  
BONE,JNTS,FASC.CONN/ADIP-PATHOL(+18006); INTEGUMENT SYST-PATH-  
OLOGY(+18506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/-  
NEOPL AGNTS-CARCINOGENS(+24007); IMMUNOL/IMMUNOCHEM-IMMUNOPAT-  
HOL(34508); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON  
HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150); HOMINID-  
AE(86215)

60016566

EFFECT OF THE MICRO CLIMATE ON VOLATILE COMPOUND MIGRATION  
FROM POLY VINYL CHLORIDE MATERIALS/STANKEVICH K I; KRAVCHENKO T I; ANTONYUK O K; KHARCHENKO T F  
; REISIG I S

GIG SANIT (6). 1974 11-14. Codon: GISAA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500);  
ECOLOGY-BIOCLIMATOL,BIOMETEOROL(+07504); BIOCHEM-GASES(10012);  
BIOCHEM STUD-GENERAL(10060); EXTERN EFF-ELECTR,MAGNET,GRAVITY-  
(10610); EXTERN EFF-TEMPERATURE(10614); EXTERN EFF-HUMIDITY(1-  
0620); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(22506);  
TEMPERATURE-GENL,METHS(23001); ENVIRON HEALTH-OCCUPATNL  
HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

60012229

CLINICAL RELEVANCE OF PLATELET FUNCTION TESTS IN 1000  
PATIENTS WITH HEMORRHAGIC DIATHESIS

BACHNER U; MUELLER N; EGLI H

THROMB RES 6 (2). 1975 139-150. Codon: THBRA

Descriptors: DRUG INDUCED PLATELET DISORDERS VINYL CHLORIDE  
DISEASE WERLHOFS DISEASE ALLERGIC REACTION LEUKEMIA MYELOPATIY

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); CLIN  
BIOCHEM-GENL STUDIES(10006); BIOCHEM STUD-GENERAL(10060);  
PATHOLOGY-DIAGNOSTIC(12504); CARDIOVASC SYST-BLD VESS  
PATHOL(+14508); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(+15002);  
BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY  
FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT  
TISS,RES(15008); INTEGUMENT SYST-PATHOLOGY(18506); TOXICOL-GE-  
NL/EXP STUDS,METHS(22501); TOXICOL-PHARMACOLOGICAL(22504);  
NEOPLSMS/NEOPL AGNTS-BLOOD,RES(24010); IMMUNOL/IMMUNOCHEM-IMM-  
UNOPATHOL(34508); ALLERGY(35500)

Biosystematic Codes: HOMINIDAE(86215)

60009761

THE VALUE OF PREDICTIVE EXPERIMENTAL BIOASSAYS IN  
OCCUPATIONAL AND ENVIRONMENTAL CARCINOGENESIS AN EXAMPLE VINYL  
CHLORIDE

MALTONI C

AMBIO 4 (1). 1975 18-23. Codon: AMBOC

Descriptors: HUMAN CARCINOGEN

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-G-  
ENERAL STUDIES(12502); TOXICOL-GENL/EXP STUDS,METHS(+22501);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CAR-  
CINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
ENVIRON HEALTH-MISCELL STUDS(+37019)

Biosystematic Codes: HOMINIDAE(86215)

60009755

## RECENT PERSPECTIVES IN OCCUPATIONAL CANCER

SELIKOFF I J

AMBIO 4 (1). 1975 14-17. Codon: AMBOC

Descriptors: HUMAN VINYL CHLORIDE ASBESTOS BETA  
NAPHTHYLAMINE BENZIOINE ARSENIC CHROMATES URANIUM NICKEL  
CARBONYL BIS CHLOROMETHYL ETHER CARCINOGENS HEM ANGIO SARCOMA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500);  
SUBTERRANEAN BIORESEARCH(06400); RADIATION BIOL-RADTN,ISOTOP  
TECH(06504); RADIATION BIOL-RADTN EFF,PROTECT(+06506); BIOCHEM  
STUD-GENERAL(10060); MINERALS(10069); PATHOLOGY-GENERAL  
STUDIES(12502); CARDIOVASC SYST-BLD VESS PATHOL(+14508);  
BONE,JNTS,FASC.CONN/ADIP-PATHOL(18006);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CAR-  
CINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
ENVIRON HEALTH-RADIATION HEALTH(37017); EPIDEMIOLOG-ORGANIC  
DIS,NEOPLASMS(37054)

Biosystematic Codes: HOMINIDAE(86215)

60009739

## MUTAGENICITY OF VINYL CHLORIDE CHLORO ETHYLENE OXIDE CHLORO ACETALDEHYDE AND CHLORO ETHANOL

MALAVEILLE C; BARTSCH H; BARBIN A; CAMUS A M; MONTESANO R; CROISY A; JACQUIONON P

BIOCHEM BIOPHYS RES COMMUN 63 (2). 1975 363-370. Coden: BBRCA

Descriptors: HUMAN MOUSE RAT LIVER FRACTIONS SALMONELLA-TYPHIMURIUM TA-1530 STRAIN TA-1535 STRAIN G-46 STRAIN CHLORO ACETIC-ACID CARCINOGENS

Concept Codes: BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PHYSIOL,BIOCHEM(+14004); TOXICOL-GENL/EXP STUDS,METHS(+22501); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); BACTERIAL AND VIRAL GENETICS(+31500); MICROBIOLOG APPARAT,METHS,MEDIA(32000); IN VITRO STUDS-CELLULR,SUBCELL(32600); MED/CLIN MICROBIOL-BACTERIOLOGY(+36002)

Biosystematic Codes: EUBACTERIALES(07200); HOMINIDAE(86215); MURIDAE(86375)

60009717

## HUMAN RAT AND MOUSE LIVER MEDIATED MUTAGENICITY OF VINYL CHLORIDE IN SALMONELLA-TYPHIMURIUM STRAINS

BARTSCH H; MALAVEILLE C; MONTESANO R

INT J CANCER 15 (3). 1975 429-437. Coden: IJCNA

Descriptors: TA-1530 STRAIN TA-1535 STRAIN G-46 STRAIN PHENO BARBITONE CHLORO ACETALDEHYDE CHLORO ACETIC-ACID CHLORO ETHANOL CARCINOGENS NADPH GENERATING SYSTEM ALCOHOL DEHYDROGENASE

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); CYTOLOGY/CYTOCHEM-HUMAN(02508); BIOCHEM METH-NUCL ACD,PURNS,PYRM(10052); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-NUCL ACD,PURNS,PYRM(10062); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOPHYS-MEMBRANE PHENOMENA(10508); ENZYMES-GEN,COMPAR STUD,COENZYMES(+10802); ENZYMES-PHYSIOLOGICAL STUDIES(+10808); PATHOLOGY-DIAGNOSTIC(12504); METABOLISM-GENL STUD,METAB PATHW(13002); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PHYSIOL,BIOCHEM(+14004); URIN SYST/EXT SECR-PHYSL,BIOCHEM(15504); RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); PHARMACOL-GENERAL STUDIES(+22002); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-PHARMACOLOGICAL(+22504); NEOPLSMS/NEOPL AGNTS-BIOCHEM(+24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); BACTERIAL AND VIRAL GENETICS(+31500); MICROBIOLOG APPARAT,METHS,MEDIA(32000); IN VITRO STUDS-CELLULR,SUBCELL(32600); MED/CLIN MICROBIOL-BACTERIOLOGY(+36002)

Biosystematic Codes: EUBACTERIALES(07200); HOMINIDAE(86215); MURIDAE(86375)

60005702

## TOXICITY OF AEROSOL PROPELLANTS IN THE RESPIRATORY AND CIRCULATORY SYSTEMS PART 10 PROPOSED CLASSIFICATION

AVIADO D M

TOXICOLOGY 3 (3). 1975 321-332. Coden: TXCYA

Descriptors: DOG MONKEY RAT MOUSE TRI CHLOROFLUORO METHANE DI CHLOROFLUORO METHANE TRI CHLORO ETHANE METHYL CHLORIDE DI CHLOROTETRAFLUORO ETHANE MONO CHLORODIFLUORO ETHANE ISO BUTANE OCTA FLUORO CYCLO BUTANE DI CHLORODIFLUORO METHANE MONO CHLORODIFLUORO METHANE PROPANE VINYL CHLORIDE CHLOROPENTA FLUORO ETHANE DI FLUORO ETHANE

Concept Codes: GENL BIOL-TAXONOMY,NOMENCLATUR(00504); COMPARATIVE BIOCHEM-GENL STUDIES(+10010); BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-COMPARATIVE(+12503); CARDIOVASC SYST-HEART PATHOLOGY(+14506); CARDIOVASC SYST-BLD VESS PATHOL(+14508); RESPIRATORY SYST-PATHOLOGY(+16006); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,IND- USTR(22506)

Biosystematic Codes: CANIDAE(85765); PRIMATES-UNSPECIFIED(86190); MURIDAE(86375)

60005609

## VINYL CHLORIDE A REPORT OF A EUROPEAN ASSESSMENT

VAN ESCH G J; VAN LOGTEN M J

TOXICOLOGY 4 (1). 1975 1-4. Coden: TXCYA

Descriptors: HUMAN ANIMALS OCCUPATIONAL HAZARD FOOD CONTAMINATION ENVIRONMENTAL POLLUTION TOXICITY CARCINOGENICITY LIVER DYS FUNCTION ACRO OSTEOLYSIS

Concept Codes: GENL BIOL-INSTITUT,ADMIN,LEGISLN(00508); SOCIAL BIOL/HUMAN ECOLOGY(05500); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM STUD-GENERAL(10060); CHORDATE BODY REGNS-EXTREMITIES(11318); MOVEMENT(12100); FOOD TECH-GENL STUDS,METHS(13502); FOOD TECH-EVALNS PHYS,CHEM PROPS(13530); DIGESTIVE SYST-PATHOLOGY(+14006); RESPIRATORY SYST-PATHOLOGY(+16006); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006); INTEGUMENT SYST-PATHOLOGY(18506); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150); HOMINIDAE(86215)

59069866

## PHTHALATE ESTER TOXICITY IN HUMAN CELL CULTURES

JONES A E; KAHN R H; GROVES J T; NAPIER E A JR  
 TOXICOL APPL PHARMACOL 31 (2). 1975 283-289. Coden:  
 TXAPA

Descriptors: POLY VINYL CHLORIDE MEDICAL DEVICES BLOOD  
 CONTAMINATION DI-2 ETHYLHEXYL PHTHALATE BUTYLGLYCOLYLBUTYL  
 PHTHALATE GROWTH INHIBITION

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(\*02508); BIOCHEM  
 STUD-GENERAL(10060); EXTERN EFF-COLD(10616); PATHOLOGY-COMPAR-  
 ATIVE(12503); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(\*15002);  
 TOXICOL-GENL/EXP STUDS,METHS(\*22501); TEMPERATURE-GENL,METHS(-  
 23001); DEVELOPMNTL BIOL-GEN MORPHGENSIS(25508); TISS  
 CULTURE-APPARAT,METHS,MEDIA(32500)

Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150); HOMINID-  
 AE(86215)

59069847

## PLASMA EXTRACTION OF PLASTICIZERS FROM MEDICAL GRADE POLY VINYL CHLORIDE TUBING

EASTERLING R E; JOHNSON E; NAPIER E A JR  
 PROC SOC EXP BIOL MED 147 (2). 1974 572-574. Coden:  
 PSEBA

Descriptors: HUMAN PLASMA TOXIC EFFECTS ORGAN PERFUSIONS  
 Concept Codes: BIOCHEM STUD-GENERAL(10060); EXTERN  
 EFF-HOT(10618); PATHOLOGY-GENERAL STUDIES(\*12502); BLOOD/BODY  
 FLDS-GENL STUDS,METHS(15001); BLOOD/BODY FLDS-BLOOD,LYMPH  
 STUD(15002); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TEMPERATUR-  
 E-GENL,METHS(23001); IN VITRO STUDS-CELLULR,SUBCELL(32600)

Biosystematic Codes: HOMINIDAE(86215)

59069455

## USE OF THE MATHEMATICAL EXPERIMENTAL DESIGN METHOD IN SANITARY CHEMICAL STUDIES OF POLY VINYL CHLORIDE RESIN BASED FLOOR COVERINGS

TSENDROVSKAYA V A  
 GIG SANIT (8). 1974 58-62. Coden: GISAA  
 Descriptors: PLASTICIZERS DI BUTYL PHTHALATE MATHEMATICAL  
 MODEL

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500);  
 ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM STUD-GENERAL(-  
 10060); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-A-  
 IR,WATR,SL POLLN(\*37015)

59064004

## ON THE EXUDATION OF PLASTICIZERS FROM POLY VINYL CHLORIDE HEMO DIALYSIS TUBINGS

NEERGAARD J; NIELSEN B; FAURBY V; CHRISTENSEN D H; NIELSEN O

F

NEPHRON 14 (3-4). 1975 263-274. Coden: NPRNA

Descriptors: HUMAN DI ETHYL PHTHALATE PMR IR UV SPECTROMETRY  
 Concept Codes: BIOCHEM METH-GENERAL(10050); BIOCHEM  
 STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504);  
 MOVEMENT(12100); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508);  
 PATHOLOGY-THERAPY(12512); DIGESTIVE SYST-PATHOLOGY(\*14006);  
 BLOOD/BODY FLDS-GENL STUDS,METHS(\*15001); URIN SYST/EXT  
 SECR-GEN STUD,METH(\*15501); TOXICOL-GENL/EXP STUDS,METHS(\*225-  
 01)

Biosystematic Codes: HOMINIDAE(86215)

59058159

## HYGIENIC STUDIES OF CERTAIN PHTHALIC-ACID ESTERS AND POLY VINYL CHLORIDE MATERIALS PLASTICIZED WITH THEM

STATSEK N K

GIG SANIT (6). 1974 25-28. Coden: GISAA

Descriptors: RAT MOUSE STOMACH SKIN BUTYL DODECYL PHTHALATE  
 BUTYLBENZYL PHTHALATE ARTIFICIAL LEATHER FOOTWEAR HABERDASHERY  
 UPHOLSTERING

Concept Codes: COMPARATIVE BIOCHEM-GENL STUDIES(10010);  
 BIOCHEM STUD-GENERAL(10060); PATHOLOGY-INFLAMMATN,INFLAM  
 DIS(12508); METABOLISM-GENL STUD,METAB PATHW(\*13002);  
 DIGESTIVE SYST-PHYSIOL,BIOCHEM(\*14004); INTEGUMENT SYST-PHYSI-  
 OL,BIOCHEM(\*18504); TOXICOL-GENL/EXP STUDS,METHS(\*22501);  
 TOXICOL-ENVIRONMNTL,INDUSTR(\*22506)

Biosystematic Codes: MURIDAE(86375)

59058113

## SANITARY INSPECTION OF NEW PACKAGING MATERIALS FOR FOOD PRODUCTS

AGRANOVSKII Z M; SHIBA V V; DOTSENKO V A

VOPR PITAN (3). 1974 55-59. Coden: VPITA

Descriptors: WHEAT FLOUR TEA BAY LEAVES VINYLIDENE CHLORIDE  
 VINYL CHLORIDE

Concept Codes: BIOCHEM STUD-GENERAL(\*10060); BIOPHYS-MOLECUL  
 PROP,MACROMOLEC(10506); FOOD TECH-GENL STUDS,METHS(13502);  
 FOOD TECH-BAKING TECHNOLOGY(13508); FOOD TECH-CEREAL  
 CHEMISTRY(13510); FOOD TECH-EVALNS PHYS,CHEM PROPS(\*13530);  
 FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); TOXICOL-FOOD,RESIDS-  
 ,ADDIT,PRESRV(\*22502); ENVIRON HEALTH-MISCELL STUDS(\*37019);  
 AGRONDMY-GRAIN CROPS(52504)

Biosystematic Codes: GRAMINEAE(25305); LAURACEAE(26245);  
 THEACEAE(26845); VERTEBRATA-UNSPECIFIED(85150)

59050477

TRAPPING WITH 3,4-DI-CHLORO-BENZENETHIOL OF REACTIVE METABOLITES FORMED IN-VITRO FROM THE CARCINOGEN VINYL CHLORIDE  
GOETHE R; CALLEMAN C J; EHRENBERG L; WACHTMEISTER C A; GOETHE R

AMBIO 3 (6). 1974 (RECD 1975) 234-236. Coden: AMBOC  
Descriptors: RAT LIVER CELLS GAS CHROMATOGRAPHY MASS SPECTROMETRY 3,4-DI-CHLOROPHENYL THIO ACETALDEHYDE CHLORO ETHYLENE OXIDE CHLORO ACETALDEHYDE FORMATION MIXED FUNCTION OXYGENASE

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(+02506); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); BIOPHYS-GENERAL BIOPHYS TECH(10504); ENZYMES-PHYSIOLOGICAL STUDIES(+10808); MOVEMENT(12100); METABOLISM-GENL STUD,METAB PATHW(+13002); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PHYSIOL,BIOCHEM(+14004); TOXICOL-GENL/EXP STUDS,METHS(+22501); NEOPLSMS/NEOPL AGNTS-BIOCHEM(+24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); IN VITRO STUDS-CELLULR,SUBCELL(32600)

Biosystematic Codes: MURIDAE(86375)

59050317

A SAMPLER FOR THE ASEPTIC COLLECTION OF WATER SAMPLES IN THE SEA

BERNHARD M; GHIBAUDDO M; LAVARELLO O; PERONI C; ZATTERA A  
MAR BIOL (BERL) 25 (4). 1974 339-343. Coden: MBIOA

Descriptors: PHYTO PLANKTON MICROORGANISMS CHEMICAL SEA WATER SAMPLES POLY VINYL CHLORIDE

Concept Codes: GENERAL FIELD APPARATUS(+01010); ECOLOGY-GENL STUDIES,METHODS(+07502); ECOLOGY-PLANT(+07506); ECOLOGY-OCEANOGRAPHY,LIMNOLOGY(+07510); ECOLOGY-OCEANOGRAPHY(+07512); ECOLOGY-LIMNOLOGY(+07514); ECOLOGY-AQUATIC WILDLIFE MGMT(07516); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM STUD-GENERAL(10060); BIOPHYS-BIOENGINEERING(+10511); TOXICOL-GENL/EXP STUDS,METHS(22501); TEMPERATURE-GENL,METHS(23001); MICROORGANISMS-GENL,MIXED,UNSPEC(+29500); PUB HEALTH-DISINFCT,VECT CNT,PEST(37008); DISINFECTION,DISINFECTANTS,STERL(39500); PLANT PHYSIOL-APPARATUS,METHODS(51524)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000); PLANTAE-UNSPECIFIED(11000)

59046466

SHORT-TERM INHALATION TOXICITY OF HALOGENATED HYDRO CARBONS EFFECTS ON FASTING RATS

JAEGER R J; CONOLLY R B; MURPHY S D  
ARCH ENVIRON HEALTH 30 (1). 1975 26-31. Coden: AEHLA

Descriptors: RAT LIVER CARBON TETRA CHLORIDE 2 CHLORO BUTADIENE 1,1-DI-BROMO ETHYLENE 1,1-DI-CHLORO ETHYLENE 1,1-DI-FLUORO ETHYLENE VINYL CHLORIDE ANTIDOTE-DRUG

Concept Codes: BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD,METAB PATHW(+13002); NUTRITION-GENL,NUTR STATUS,METHS(13-202); DIGESTIVE SYST-PATHOLOGY(+14006); RESPIRATORY SYST-GENL STUD,METHS(16001); PHARMACOL-DIGESTIVE SYST(+22014); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-ANTIDOTES,PREVENTIVE(+22505); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

STUD,METAB PATHW(+13002); NUTRITION-GENL,NUTR STATUS,METHS(13-202); DIGESTIVE SYST-PATHOLOGY(+14006); RESPIRATORY SYST-GENL STUD,METHS(16001); PHARMACOL-DIGESTIVE SYST(+22014); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-ANTIDOTES,PREVENTIVE(+22505); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)  
Biosystematic Codes: MURIDAE(86375)

59046007

DETERMINATION OF PHTHALATE ESTERS LIBERATED FROM POLY VINYL CHLORIDE MATERIALS INTO THE AIR

RAPAPORT L I; GORTSEVA L V; ANTONYUK O K  
GIG SANIT 37 (10). 1972 (RECD 1973) 60-61. Coden: GISAA

Descriptors: POLLUTION ANALYSIS LINOLEUM INDUSTRY OCCUPATIONAL HEALTH HIGH TEMPERATURE VOLATILITY SPECTROPHOTOMETRY

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-MOLECUL PROP,MACROMOLEC(+10506); EXTERN EFF-HOT(+10618); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TEMPERATURE-GENL,METHS(23001); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

59040444

CONTAMINATION OF WATER BY SYNTHETIC POLYMER TUBES

JUNK G A; SVEC H J; VICK R D; AVERY M J  
ENVIRON SCI TECHNOL 8 (13). 1974 1100-1106. Coden: ESTHA

Descriptors: PLASTICIZERS POLY ETHYLENE POLY PROPYLENE BLACK LATEX POLY VINYL CHLORIDE MACRO RETICULAR RESIN,BEADS GAS CHROMATOGRAPHY MASS SPECTROMETRY

Concept Codes: ECOLOGY-LIMNOLOGY(+07514); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

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59039845

GAS CHROMATOGRAPHIC ANALYSIS OF VOLATILE SUBSTANCES EMITTED BY PLASTICIZED MATERIALS

FILIPPOV A P; MAL'TSEV V V; KOMLEV V K

GIG SANIT (1). 1974 61-64. Coden: GISAA

Descriptors: POLYMER CONSTRUCTION MATERIAL POLY VINYL CHLORIDE DI-2 ETHYLHEXYL PHTHALATE HYDRO CARBONS.

Concept Codes: ECOLOGY-BIOCLIMATOL, BIOMETEOROL(07504); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-BIOENGINEERING(+10511); MOVEMENT(12100); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); ENVIRON HEALTH-AIR, WATR, SL POLLN(+37015)

59034684

PROBLEMS ASSOCIATED WITH THE USE OF MEMBRANE FILTERS FOR DUST SAMPLING WHEN COMPOSITIONAL ANALYSIS IS REQUIRED

MARK D

ANN OCCUP HYG 17 (1). 1974 35-40. Coden: AOHYA

Descriptors: POLY VINYL CHLORIDE GLASS FIBER GRAVIMETRIC SAMPLING IR SPECTROPHOTOMETRY AIRBORNE RESPIRABLE COAL MINE DUST

Concept Codes: GENERAL FIELD APPARATUS(+01010); SUBTERRANEAN BIORESEARCH(06400); ECOLOGY-BIOCLIMATOL, BIOMETEOROL(07504); BIOCHEM METH-MINERALS(+10059); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL STUDIES(10502); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-MOLECUL PROP, MACROMOLEC(10506); BIOPHYS-MEMBRANE PHENOMENA(10508); MOVEMENT(12100); RESPIRATORY SYST-GENL STUD, METHS(16001); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR, WATR, SL POLLN(+37015)

59034432

HEAT DEFECT OF LOW ENERGY X-RAYS IN SOME MATERIALS OF INTEREST IN ABSORBED DOSE CALORIMETRY

SAEBEL M; SCHMIDT T; PAULY H

RADIAT ENVIRON BIOPHYS 11 (3). 1974 259-264. Coden: REBPA

Descriptors: CARBON POLY STYRENE POLY ETHYLENE POLY METHYL METHACRYLATE POLY AMIDE POLY VINYL CHLORIDE SHONKA PLASTIC

Concept Codes: GENERAL LABORATORY APPARATUS(01006); MATHEMATIC BIOL/STATISTIC METH(04500); RADIATION BIOL-RADTN, ISOTOP TECH(+06504); RADIATION BIOL-RADTN EFF, PROTECT(+06506); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); MINERALS(+10069); BIOPHYS-GENERAL STUDIES(+10502); BIOPHYS-MOLECUL PROP, MACROMOLEC(10506); EXTERN EFF-HOT(10618); TEMPERATURE-GENL, METHS(+23001)

THE INFLUENCE OF SUSPENDED SOLIDS ON OXYGEN TRANSFER IN AERATION SYSTEMS

CASEY T J; KARMO O T

WATER RES 8 (10). 1974 805-812. Coden: WATRA

Descriptors: ACTIVATED SLUDGE PEAT POLY VINYL CHLORIDE POWDER EQUATIONS POLYNOMIAL RELATIONSHIP

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); ECOLOGY-WATR RESRCH, FISHERY BIOL(07517); BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL STUDIES(+10502); BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-BIOENGINEERING(+10511); EXTERN EFF-PHYSICAL, MECH EFFECTS(10612); MICROORGANISMS-GENL, MIXED, UNSPEC(29500); ENVIRON HEALTH-SEWG DISP, SANITAR(+37014); FOOD/INDUS MICRO-GENL, MISC STUDS(+39008)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000)

59032423

THE MUTAGENICITY OF VINYL CHLORIDE AFTER METABOLIC ACTIVATION

RANNUG U; JOHANSSON A; RAMEL C; WACHTMEISTER C A

AMBIO 3 (5). 1974 194-197. Coden: AMBQC

Descriptors: HUMAN SALMONELLA-TYPHIMURIUM CARCINOGEN LIVER TUMORS OCCUPATIONAL EXPOSURE

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); GENETICS/CYT-OGNET-HUMAN(03508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD, METAB PATHW(+13002); DIGESTIVE SYST-PHYSIOL, BIOCHEM(14004); DIGESTIVE SYST-PATHOLOGY(+14006); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-BIOCHEM(+24006); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); BACTERIA-PHYSIOLOGY, BIOCHEMISTRY(+31000); BACTERIAL AND VIRAL GENETICS(+31500); MED/CLIN MICROBIOL-BACTERIOLOGY(+36002); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: EUBACTERIALES(07200); HOMINIDAE(86215)

59034325

59028954

THE TOXICITY OF HUMAN SERUM STORED IN FLEXIBLE POLY VINYL CHLORIDE CONTAINERS ON HUMAN FIBROBLAST CELL CULTURES AN EFFECT OF DI-2 ETHYLHEXYL PHTHALATE

JACOBSON M S; PARKMAN R; BUTTON L N; JAEGER R J; KEVY S V  
RES COMMUN CHEM PATHOL PHARMACOL 9 (2). 1974 315-323.  
Codon: RCQCB

Descriptors: IN-VITRO

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(\*02508); CLIN BIOCHEM-GENL STUDIES(\*10006); BIOCHEM STUD-GENERAL(\*10060); EXTERN EFF-COLD(10616); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(\*15002); BONE,JNTS,FASC,CONN/ADIP-PHY,BCH(\*18004); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TEMPERATURE-GENL,METHS(23001); TISS CULTURE-APPARAT,METHS,MEDIA(32500)

Biosystematic Codes: HOMINIDAE(86215)

59028911

A STUDY OF THE EFFECT OF HARD POLY VINYL CHLORIDE PACKINGS ON SOME QUALITATIVE ASPECTS OF EDIBLE FATS AND MODEL MEDIA/ TVERSKAYA M YA; PLATOVA T F; VASILENKO V S

VOPR PITAN (2). 1974 74-78. Codon: VPITA  
Concept Codes: BIOCHEM STUD-GENERAL(\*10060); BIOCHEM STUD-LIPIDS(10066); FOOD TECH-FATS,OILS(\*13514); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(\*22502)

59028841

SAFETY EVALUATION IN THE HOME OF POLY VINYL CHLORIDE RESIN STRIP CONTAINING DICHLORVOS

LEARY J S; KEANE W T; FONTENOT C; FEICHTMEIR E F; SCHULTZ D; KODS B A; HIRSCH L; LAVOR E M; ROAN C C; ET AL.

ARCH ENVIRON HEALTH 29 (6). 1974 308-314. Codon: AEHLA  
Descriptors: HUMAN BLOOD CHOLIN ESTERASE ERYTHROCYTE FOOD AIR ARIZONA USA NEGATIVE TOXICITY

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(\*02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07-504); CLIN BIOCHEM-GENL STUDIES(\*10006); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); ENZYMES-PHYSIOLOGICAL STUDIES(\*10808); FOOD TECH-EVALNS PHYS,CHEM PROPS(13530); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(\*15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(\*15004); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(\*22502); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-AIR,WATR,-SL POLLN(\*37015); PEST CONTRL GENL/PESTICS/HERBICS(\*54600); ECONOM ENTOMOL-CHEM PHYS CONTRL(60016)

Biosystematic Codes: HOMINIDAE(86215); ABSTRACTS OF ENTOMOLOGY(96000)

59023282

NEW UMBILICAL CORD TREATMENT IN NEW BORN PIGS WITH A LIQUID SYNTHETIC PLASTIC PRELIMINARY RESULTS

DIAZ B C; BERNADLA O A  
ACTA CIEN VENEZ 23 (6). 1972 (RECD 1973) 191-192.  
Codon: ACVEA

Descriptors: INFECTION MYIASIS ACETATE VINYL CHLORIDE CO POLYMER RESIN

Concept Codes: BIOCHEM STUD-GENERAL(10060); MINERALS(10069); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508); REPRODUCT SYST-GENL STUDS,METHS(\*16501); TEMPERATURE-GENL,METHS(23001); PEDIATRIC-S(\*25000); DEVELOPMNTL BIOL-GENL,DESCRIPTIVE(\*25502); ANIMAL PRODUCTN-GENL STUDS,METHS(26502); MED/CLIN MICROBIOL-GEN,METH-TECH(36001); VETERINARY SCI-GENL STUDS,METHS(\*38002); VETERINARY SCI-PATHOLOGY(38004); PARASITOLOGY-VETERINARY(6050-6)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000); DIPTERA(75314); SUIDAE(85740)

59019692

PACKAGING SYSTEMS FOR EXTENDING THE STORAGE LIFE OF PORK CUTS

SMITH G C; RAPE S W; MOTYCKA R R; CARPENTER Z L  
J FOOD SCI 39 (6). 1974 1140-1144. Codon: JFDSA  
Descriptors: BACTERIA BLADE CENTER SIRLOIN SECTIONS POLY VINYL CHLORIDE FILM CARBON DI OXIDE CHILLING PARCHMENT PAPER SHRINKAGE DIS COLORATION ODOR

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-COLD(\*10616); CHORDATE BODY REGNS-BACK/BUTTOCK(11310); CHORDATE BODY REGNS-LUMBAR(11311); FOOD TECH-MEAT,MEAT BY-PRODUCTS(\*13516); FOOD TECH-EVALNS PHYS,CHEM PROPS(\*13530); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); TEMPERATURE-GENL,METHS(23001); MICROBIOLOG APPARAT,METHS,MEDIA(32000); FOOD/INDUS MICRO-FD/BEV SP CNTAM(\*39002)

Biosystematic Codes: BACTERIA-UNSPECIFIED(06000); SUIDAE(85740)

59012277

## PROPAGATION OF PRESSURE PULSE IN NON-NEWTONIAN FLUIDS A THEORETICAL AND EXPERIMENTAL INVESTIGATION

RAVINDRAN R

BIORHEOLOGY 11 (3). 1974 197-205. Coden: BRHLA

Descriptors: POLY VINYL CHLORIDE TUBE MOENS KORTEWEG VELOCITY BLOOD RHEOLOGY

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(\*04500); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(10066); BIOCHEM STUD-CARBOHYDR.(10068); BIOPHYS-GENERAL STUDIES(\*10502); BIOPHYS-BIOENGINEERING(\*10511); BIOPHYS-BIOCYBERNETICS(10515); CARDIOVASC SYST-GENL STUDS,METHS(\*14501); CARDIOVASC SYST-PHYSIOL,BIOCHEM(\*14504)

59011374

## LIVER DAMAGE AND ANGIO SARCOMA IN VINYL CHLORIDE WORKERS A SYSTEMATIC DETECTION PROGRAM

MAKK L; CREECH J L; WHELAN J G JR; JOHNSON M N

JAMA (J AM MED ASSOC) 230 (1). 1974 64-68. Coden: JAMAA

Descriptors: HUMAN PORTAL FIBROSIS

Concept Codes: BIOCHEM STUD-GENERAL(10060); PATHOLOGY-DIAGNOSTIC(\*12504); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PATHOLOGY(\*14006); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS-NEOPL AGNTS-DIAGNS METH(\*24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); PUB HEALTH-HEALTH SERV,MEDL CARE(\*37012); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(\*37054)

Biosystematic Codes: HOMINIDAE(86215)

59011373

## HEPATIC DISEASE AMONG WORKERS AT A VINYL CHLORIDE POLYMERIZATION PLANT

FALK H; CREECH J L JR; HEATH C W JR; JOHNSON M N; KEY M M

JAMA (J AM MED ASSOC) 230 (1). 1974 59-63. Coden: JAMAA

Descriptors: HUMAN ANGIO SARCOMA PORTAL FIBROSIS NONMALIGNANT DISEASE

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); PATHOLOGY-DIAGNOSTIC(12504); DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PATHOLOGY(\*14006); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-DIAGNS METH(24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); GERONTOLOGY(24500); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(\*37054)

Biosystematic Codes: HOMINIDAE(86215)

## OF THE THROMBOGENERATOR

MASON R G; ZUCKER W H; SHINODA B A; CHUANG H Y; KINGDON H S; CLARK H G

LAB INVEST 31 (2). 1974 143-155. Coden: LAINA

Descriptors: HUMAN ASPIRIN DEXTRAN HEPARIN WARFARIN HEMATOL-DRUGS ALBUMIN LIPO PROTEIN POLY VINYL CHLORIDE TUBING SILASTIC TUBING PROTEIN POLY SACCHARIDE PLATELET LEUKOCYTE INTRINSIC COAGULATION SYSTEM

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); BIOCHEM-GASE-S(10012); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS.-PEPTIDES,AMINO ACD(10064); BIOCHEM STUD-LIPIDS(10066); BIOCHEM STUD-CARBOHYDR.(10068); BIOPHYS-GENERAL BIOPHYS TECH(\*10504); BIOPHYS-BIOENGINEERING(\*10511); EXTERN EFF-PHYSICAL,MECH EFFECTS(10612); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(\*11108); MOVEMENT(12100); PATHOLOGY-THERAPY(12512); CARDIOVASC SYST-PHYSIOL,BIOCHEM(14504); CARDIOVASC SYST-BLD VESS PATHOL(14508); BLOOD/BODY FLOS-GENL STUDS,METHS(\*15001); BLOOD/BODY FLOS-BLOOD,LYMPH STUD(\*15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(\*15004); PHARMACOL-GENERAL STUDIES(22002); PHARMACOL-BLOOD,HEMATO AGENTS(\*22008); IN VITRO STUDS-CELLULR,SUBCELL(32600)

Biosystematic Codes: HOMINIDAE(86215)

59002254

## PROPAGATION OF MAGNOLIA BY CUTTINGS

OGOREVC M

ZB BIOTEH FAK UNIV LJUBLJ KMETIJSTVO 21 1973 (RECD 1974) 175-182. Coden: ZBFLA

Descriptors: GROWTH REGULATORS POLY VINYL CHLORIDE COVER MIST TECHNIQUE

Concept Codes: GENERAL FIELD METHODS(\*01008); GENERAL FIELD APPARATUS(01010); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-COLD(10616); PLANT PHYSIOL-TEMPERATURE(51503); PLANT PHYSIOL-GROWTH,DIFFERENTIAT(\*51510); PLANT PHYSIOL-REPRODUCTION(\*51512); PLANT PHYSIOL-GROWTH SUBSTANCES(\*51514); SOIL SCI-GENL STUDS,METHS(-52801); HORTICULT-FLOWERS,ORNAMENTALS(\*53010)

Biosystematic Codes: MAGNOLIACEAE(26315)

59006355

## STUDY OF THE REACTIONS OF BLOOD WITH ARTIFICIAL SURFACES USE

75099014

## VINYL CHLORIDE AND CIRRHOSIS

SMITH P M; WILLIAMS D M J

DIGESTION 10 (4/5). 1974 321-322 Coden: DIGEB

Descriptors: ABSTRACT HUMAN LIVER SINUSOID HEMATEMESIS  
PORTAL HYPERTENSION MALLORYS HYALINE ANGIO SARCOMAConcept Codes: CLIN BIOCHEM-GENL STUDIES(+10006);  
ANATOMY/HISTOL-SURGERY(11105);

ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108);

PATHOLOGY-DIAGNOSTIC(12504); DIGESTIVE SYST-GENL STUDS,METHS(-  
14001); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD

VESS PATHOL(+14508); TOXICOL-ENVIRONMNTL,INDUSTR(+22506);

NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007)

Biosystematic Codes: HOMINIDAE(86215)

75097031

## ATMOSPHERIC SYSTEMS FOR LONG-TERM STORAGE OF BEEF CARCASSES

SIMMONS R D; SMITH G C; CARPENTER Z L; DAVIS G W; HOKE K E

J ANIM SCI 41 (1). 1975 303 Coden: JANS

Descriptors: ABSTRACT MICROBIAL DAMAGE NORMAL AIR NITROGEN  
GAS POLY VINYL CHLORIDE FILM SODIUM HYPO CHLORITE ODOR FATConcept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(+07504);  
BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); MINERALS(1-

0069); BIOPHYS-BIOENGINEERING(+10511); PATHOLOGY-NECROSIS(125-

10); FOOD TECH-MEAT,MEAT BY-PRODUCTS(+13516); FOOD

TECH-PREP,PROCESSNG,STORAGE(+13532);

MICROORGANISMS-GENL,MIXED,UNSPEC(29500); FOOD/INDUS MICRO-FD/-

BEV SP CNTAM(39002)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000);

BOVIDAE(85715)

75096538

## BIO MATERIALS IN CLINICAL USE

BRALEY S A

BIOMATER MED DEVICES ARTIF ORGANS 2 (3). 1974 (RECD 1975)  
225-234 Coden: BMDOADescriptors: ARTIFICIAL POLYMERS POLY VINYL CHLORIDE  
VITALLIUM ALLOYS STAINLESS STEEL TEFLON POLY ETHYLENE METHYL  
METHACRYLATE HYDRON SILICONES RUBBER ARTIFICIAL IMPLANTSConcept Codes: BIOCHEM STUD-GENERAL(+10060); BIOPHYS-BIOENG-  
INEERING(+10511); ANATOMY/HISTOL-REGEN,TRANSPLANT(+11107)

75088108

## A STUDY OF GASEOUS AIR POLLUTANTS IN THE HOUSTON TEXAS AREA

GORDON S; MEEKS S; LONNEMAN W; BUFALINI J; HAUST P

AM INST CHEM ENG. 79TH NATIONAL MEETING. 8TH PETROCHEMICAL  
AND REFINING EXPOSITION. HOUSTON, TEX., U.S.A., MARCH 16-20,  
1975 1980 11115 AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

NEW YORK, N.Y., U.S.A. 1975 115 Coden: 04366

Descriptors: ABSTRACT USA HYDRO CARBONS VINYL CHLORIDE VINYL  
ACETATE AMMONIA FLAME IONIZATION GAS CHROMATOGRAPHY IR  
ABSORPTION SPECTROSCOPYConcept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(06504);  
ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM-GASES(+10012);  
BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(+10060);  
BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WATR,-  
SL POLLN(+37015)

75079423

## AN IMMUNO ELECTRODE

JANATA J

J AM CHEM SOC 97 (10). 1975 2914-2916 Coden: JACSA

Descriptors: YEAST MANNAN IMMOBILIZED ANTIBODY ANTIGEN POLY  
ELECTROLYTES CONCAVALIN A POLY VINYL CHLORIDE MEMBRANEConcept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
STUD-PROTEINS,PEPTIDES,AMINO ACD(+10064); BIOCHEM STUD-CARBOH-  
YDR.(10068); BIOPHYS-MEMBRANE PHENOMENA(10508); IMMUNOL/IMMUN-  
OCHEM-GEN METH(+34502); PLANT PHYSIOL-CHEM CONSTITUENTS(+5152-  
2)Biosystematic Codes: FUNGI-UNSPECIFIED(15000); LEGUMINOSAE(-  
26260)

75078050

GRAY SCALE ULTRASONOGRAPHY FOR MONITORING INDUSTRIAL  
EXPOSURE TO HEPATO TOXIC AGENTS

TAYLOR K J W; WILLIAMS D M J; SMITH P M; DUCK B W

LANCET 1 (7918). 1975 1222-1224 Coden: LANCA

Descriptors: HUMAN VINYL CHLORIDE LIVER SPLEEN PORTAL VEIN  
DISORDERSConcept Codes: PHOTOGRAPHY-METHS,MATLS,APPARAT(01012);  
SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION BIOL-RADTN,ISOTOP  
TECH(06504); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-RADI-  
OLOGIC(11106); PATHOLOGY-DIAGNOSTIC(+12504); DIGESTIVE  
SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+1450-  
8); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY  
FLDS-LYMPHAT TISS,RES(15008); TOXICOL-ENVIRONMNTL,INDUSTR(+22-  
506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(24007); ENVIRON  
HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

## R&amp;S 138166

75077402

ON THE CHEMISTRY OF ETHYLENE DI CHLORIDE TAR AND ITS BIOLOGICAL SIGNIFICANCE IN THE SEA

JENSEN S; LANGE R; BERGE G; PALMORK K H; RENBERG L

PROC R SOC LOND B BIOL SCI . 189 (1096). 1975 333-346

Codon: PRLBA

Descriptors: ANIMAL VINYL CHLORIDE PRODUCTION

Concept Codes: ECOLOGY-ANIMAL(+07508); ECOLOGY-OCEANOGRAPHY-  
 (+07512); ECOLOGY-WATR RESRCH, FISHERY BIOL(07517); BIOCHEM  
 STUD-GENERAL(10060); TOXICOL-ENVIRONMNTL, INDOSTR(+22506); ENV-  
 IRON HEALTH-AIR, WATR, SL POLLN(+37015)

Biosystematic Codes: ANIMALIA-UNSPECIFIED(33000)

75075936

POLY VINYL CHLORIDE BIOMEDICAL PRODUCTS TOXICITY TESTING AND IDENTIFICATION OF ADDITIVES

GEERTZ W; DYER K; JOHNSON D; MILLER B; TAYLOR B; SHARP W

SCHREINER, GEORGE E. (ED.). TRANSACTIONS OF THE AMERICAN

SOCIETY FOR ARTIFICIAL INTERNAL ORGANS, VOLS. 20. PARTS A AND B. CHICAGO, ILL., U.S.A., APRIL 3-5, 1974. XIX+409P. (PT. 1.)

XV+446P. (PT. 2.). ILLUS. AMERICAN SOCIETY FOR ARTIFICIAL  
 INTERNAL ORGANS: GEORGETOWN UNIVERSITY HOSPITAL, WASHINGTON,  
 D.C., U.S.A. 1974 (RECD 1975) 42-46 Codon: 04395

Descriptors: RABBIT MOUSE BIO COMPATIBILITY

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); BIOCHEM  
 METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GEN-  
 ERAL BIOPHYS TECH(10504); BIOPHYS-BIOENGINEERING(+10511);  
 MOVEMENT(12100); PATHOLOGY-NECROSIS(12510); TOXICOL-GENL/EXP  
 STUDS, METHS(+22501); TISS CULTURE-APPARAT, METHS, MEDIA(32500)

Biosystematic Codes: LEPORIDAE(86040); MURIDAE(86375)

75075581

SYSTEMS FOR CENTRALIZED PRE PACKAGING OF PORK CHOPS

SMITH G C; RAPE S W; CARPENTER Z L; DAVIS G W

J ANIM SCI 39 (1). 1974 175-176 Codon: JANSA

Descriptors: ABSTRACT POLY VINYL CHLORIDE FILM FREEZING TRANSPORTATION ACCEPTIBILITY

Concept Codes: BIOCHEM STUD-GENERAL(10060); EXTERN  
 EFF-COLD(+10616); CHORDATE BODY REGNS-BACK/BUTTOCK(11310);  
 FOOD TECH-MEAT, MEAT BY-PRODUCTS(+13516); FOOD TECH-EVALNS  
 PHYS, CHEM PROPS(+13530); FOOD TECH-PREP, PROCESSNG, STORAGE(+13-  
 532); TEMPERATURE-GENL, METHS(23001); TEMPERATURE-CRYOBIOLOGY(-  
 23004)

Biosystematic Codes: SUIDAE(85740)

75075580

PACKAGING SYSTEMS FOR FRESH PORK CUTS

SMITH G C; RAPE S W; CARPENTER Z L; BOWLING R A

J ANIM SCI 39 (1). 1974 175 Codon: JANSA

Descriptors: ABSTRACT BACTERIA STORAGE VACUUM PACKING POLY  
 VINYL CHLORIDE FILM PARCHMENT PAPER SHRINKAGE LOSS ODOR  
 APPEARANCE

Concept Codes: BIOCHEM STUD-GENERAL(10060); EXTERN  
 EFF-PRESSURE(+10606); CHORDATE BODY REGNS-BACK/BUTTOCK(11310);  
 CHORDATE BODY REGNS-PELVIS(11316); FOOD TECH-MEAT, MEAT  
 BY-PRODUCTS(+13516); FOOD TECH-EVALNS PHYS, CHEM PROPS(+13530);  
 FOOD TECH-PREP, PROCESSNG, STORAGE(+13532); SENSE ORGANS-GENL  
 STUDS, METHS(20001); FOOD/INDUS MICRO-FD/BEV SP CNTAM(+39002);  
 FORESTRY AND FOREST PRODUCTS(53500)

Biosystematic Codes: BACTERIA-UNSPECIFIED(06000); SUIDAE(85-  
 740); HOMINIDAE(86215)

75074731

THE EFFECT OF FOOD ON THE IN-VIVO RELEASE OF PROPRANOLOL FROM A POLY VINYL CHLORIDE MATRIX TABLET IN THE DOG

GRUNDY R U; MCAINSH J; TAYLOR D C

J PHARM PHARMACOL 26 (SUPPL). 1974 (RECD 1975) 65P-66P  
 Codon: JPPMA

Descriptors: STATISTICAL ANALYSIS

Concept Codes: BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL  
 STUD, METAB PATHW(+13002); NUTRITION-GENL, NUTR STATUS, METHS(+1-  
 3202); DENTAL/ORAL BIOL-GENL STUD, METHS(19001); PHARMACOL-GEN-  
 ERAL STUDIES(+22002); PHARMACOL-DRUG METAB, METAB STIMU(+22003);  
 ROUTES OF IMMUNIZ, INFECT, THERAP(+22100)

Biosystematic Codes: BOVIDAE(85715)

75073875

UPTAKE AND METABOLISM OF VINYL CHLORIDE IN THE ISOLATED PERFUSED RAT LIVER PREPARATION

RADWAN Z; HENSCHLER D

NAUNYN-SCHMIEDEBERG'S ARCH PHARMACOL 287 (SUPPL). 1975  
 R100 Codon: NSAPC

Descriptors: ABSTRACT RADIOACTIVITY TOXICOLOGY

Concept Codes: RADIATION BIOL-RADTN, ISOTOP TECH(06504);  
 BIOCHEM STUD-GENERAL(10060); MOVEMENT(12100); METABOLISM-GENL  
 STUD, METAB PATHW(+13002); DIGESTIVE SYST-PHYSIOL, BIOCHEM(1400-  
 4); TOXICOL-GENL/EXP STUDS, METHS(+22501); IN VITRO  
 STUDS-CELLULR, SUBCELL(32600)

Biosystematic Codes: MURIDAE(86375)

75064775

COMPARISON OF THE MORPHOLOGIC FEATURES OF HEPATIC ANGIO SARCOMA IN MAN AND RODENTS FOLLOWING PROLONGED EXPOSURE TO VINYL CHLORIDE

GORDON D E; THOMAS L B; CALANDRA J C; POPPER H; KENT G  
LAB INVEST 32 (3). 1975 424-425 Coden: LAINA

Descriptors: ABSTRACT MOUSE RAT CARCINOGEN OCCUPATIONAL EXPOSURE

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); CYTOLOGY/CYTOCHEM-HUMAN(02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(\*11108); PATHOLOGY-COMPARATIVE(12503); DIGESTIVE SYST-PATHOLOGY(\*14006); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215); RODENTIA-UNSPECIFIED-(86265); MURIDAE(86375)

75064638

MORTALITY STUDY OF WORKERS IN THE MANUFACTURE OF VINYL CHLORIDE AND ITS POLYMERS

TABERSHAW I R; GAFFEY W R

J OCCUP MED 16 (8). 1974 509-518 Coden: JOCMA

Descriptors: USA HUMAN RATS INHALATION LYMPHOMAS ANGIO SARCOMA HEM ANGIO SARCOMA CANCER KIDNEY SKIN BRAIN DIGESTIVE TRACT RESPIRATORY SYSTEM

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-DIAGNOSTIC(12504); PATHOLOGY-N-ECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(14006); CARDIOVASC SYST-BLD VESS PATHOL(14508); BLOOD/BODY FLDS-BLD,LYM,RES PATH(15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); URIN SYST/EXT SECR-PATHOLOGY(15506); RESPIRATORY SYST-GENL STUD,METHS(\*16001); RESPIRATORY SYST-PATHOLOGY(16006); INTEGUMENT SYST-PATHOLOGY(18506); NERVOUS SYST-PATHOLOGY(20506); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); NEOPLSMS/NEOPL AGNTS-BLOOD,RES(\*24010); PUB HEALTH-ADMINISTR,STATISTICS(\*37010); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(\*37054)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

75064307

HEPATIC DISEASE AMONG WORKERS AT A VINYL CHLORIDE POLYMERIZATION PLANT

FALK H; HEATH C W JR; CREECH J L JR; JOHNSON M N; KEY M M

AM J EPIDEMIOLOG 100 (6). 1974 (RECD 1975) 525-526 Coden:

AJEPA

Descriptors: ABSTRACT HEPATIC ANGIO SARCOMA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(14006);

TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(\*37054)

Biosystematic Codes: HOMINIDAE(86215)

75045016

A BIBLIOGRAPHY ON THE TOXICOLOGY OF VINYL CHLORIDE AND POLY VINYL CHLORIDE

HEIMANN H; LILIS R; HAWKINS D T

ANN N Y ACAD SCI 246. 1975 322-337 Coden: ANYAA

Descriptors: HUMAN OCCUPATIONAL HAZARD CARCINOGENESIS LIVER LUNG SKIN ACRO OSTEOLYSIS

Concept Codes: GENL BIOL-BIBLIOGRAPHY(\*00526); GENL BIOL-INFRTN,DOCU,COMP APPL(\*00530); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); CHORDATE BODY REGNS-EXTREMITIES(11318); DIGESTIVE SYST-PATHOLOGY(\*14006); RESPIRATORY SYST-PATHOLOGY(\*16006); BONE,JNTS,FASC,CONN/ADIP-PATHOL(\*18006); INTEGUMENT SYST-PATHOLOGY(\*18506); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

75045015

CLINICAL MANAGEMENT OF WORKERS EXPOSED TO VINYL CHLORIDE AND POLY VINYL CHLORIDE

JOHNSON C A

ANN N Y ACAD SCI 246. 1975 313-321 Coden: ANYAA

Descriptors: VINYL CHLORIDE POLY VINYL CHLORIDE DISEASE PREVENTION SURVEILLANCE PROGRAM MEDICAL HISTORY PHYSICAL EXAMINATION CHEST X-RAY HAND X-RAY PULMONARY FUNCTION TESTS CLINICAL LABORATORY TESTS

Concept Codes: PHOTOGRAPHY-METHS,MATLS,APPARAT(01012); RADIATION BIOL-RADTN,ISOTOP TECH(06504); CLIN BIOCHEM-GENL STUDIES(10006); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-RADIOLOGIC(11106); CHORDATE BODY REGNS-THORAX(11312); CHORDATE BODY REGNS-EXTREMITIES(11318); PHYSIOLOGY-GENERAL STUDIES(12002); PATHOLOGY-DIAGNOSTIC(12504); RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); TOXICOL-ANTIDOTES,PREVENTIVE(22505); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); PUB HEALTH-HEALTH SERV,MEDL CARE(\*37012); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

75045014

## SURVEILLANCE OF WORKERS WITH HISTORY OF EXPOSURE TO VINYL CHLORIDE

PERKEL G; MAZZOCCHI A; BELICZKY L

ANN N Y ACAD SCI 246. 1975 311-312 Coden: ANYAA

Descriptors: ANGIO SARCOMA DIAGNOSTIC PROBLEMS EMPLOYEE REGISTRIES CARCINOGENS

Concept Codes: GENL BIOL-INFRMTN,DOCU,COMP APPL(\*00530); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-DIAGNOSTIC(12504); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS-/NEOPL AGNTS-CARCINOGENS(\*24007); PUB HEALTH-ADMINISTR,STATISTICS(\*37010); PUB HEALTH-HEALTH SERV,MEDL CARE(\*37012); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

75045013

## EXPERIENCE IN INDUSTRIAL EXPOSURE CONTROL

ROWE V K

ANN N Y ACAD SCI 246. 1975 306-310 Coden: ANYAA

Descriptors: HUMAN VINYL CHLORIDE ANALYTICAL METHODS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(\*10050); BIOCHEM STUD-GENERAL(10060); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); PUB HEALTH-ADMINISTR,STATISTICS(\*37010); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

75045012

## PART 4 CONTROL AND MANAGEMENT

CORN M

ANN N Y ACAD SCI 246. 1975 303-305 Coden: ANYAA

Descriptors: HUMAN OCCUPATIONAL HAZARD VINYL CHLORIDE VENTILATION MATHEMATICAL CONCEPTS EQUIPMENT

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(\*04500); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-BIOENGINEERING(\*10511); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

75045011

## ENVIRONMENTAL CONCERNS BEYOND THE WORKPLACE

SCHWEITZER G E

ANN N Y ACAD SCI 246. 1975 296-302 Coden: ANYAA

Descriptors: HUMAN ANIMALS VINYL CHLORIDE POLY VINYL

## CHLORIDE ENVIRONMENTAL POLLUTION EPIDEMIOLOGY TOXICOLOGY MONITORING DISPOSAL

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); PUB HEALTH-ADMINISTR,STATISTICS(\*37010); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-SEWG DISP,SANITAR(\*37014); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(\*37054)

Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150); HOMINIDAE(86215)

75045010

## PART III ENVIRONMENTAL CONSIDERATIONS MEASUREMENTS OF VINYL CHLORIDE FROM AEROSOL SPRAYS

GAY B W JR; LONNEMAN W A; BRIDBORD K; MORAN J B

ANN N Y ACAD SCI 246. 1975 286-295 Coden: ANYAA

Descriptors: HUMAN ENVIRONMENTAL HAZARD PROPELLANT GAS CHROMATOGRAPHY

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(\*10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

75045009

## MORPHOLOGY OF LIVER DAMAGE AMONG POLY VINYL CHLORIDE PRODUCTION WORKERS A REPORT ON 51 CASES

GEDIGK P; MUELLER R; BECHTELSHEIMER H

ANN N Y ACAD SCI 246. 1975 278-285 Coden: ANYAA

Descriptors: HEPATOCYTE DEGENERATION HEPATOCYTE ADAPTATION FIBROSIS SINUSOIDAL CELLS TUMORS

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(\*02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(\*11108); DIGESTIVE SYST-PATHOLOGY(\*14006); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOPLSMS-/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

75045008

## PATHOLOGY OF ANGIO SARCOMA OF THE LIVER AMONG VINYL CHLORIDE POLY VINYL CHLORIDE WORKERS

THOMAS L B; POPPER H

ANN N Y ACAD SCI 246. 1975 268-277 Coden: ANYAA

Descriptors: HUMAN CARCINOGENS MICROSCOPY

Concept Codes: MICROSCOPY-GENL,SPECL TECHNIQUES(01052);  
 SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060);  
 ANATOMY/HISTOL-MICRO,ULTRAMICRSC(+11108); DIGESTIVE SYST-PATH-  
 OLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508);  
 BDNE,JNTS,FASC,CONN/ADIP-PATHOL(18006);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CAR-  
 CINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

75045007

## ON THE POSSIBLE MECHANISM OF CARCINOGENIC ACTION OF VINYL CHLORIDE

VAN DUUREN B L

ANN N Y ACAD SCI 246. 1975 258-267 Coden: ANYAA

Descriptors: HUMAN ANIMAL CARCINOGEN OCCUPATIONAL EXPOSURE  
 SERUM ALBUMIN BINDING

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO  
 ACD(10064); PATHOLOGY-GENERAL STUDIES(12502); METABOLISM-GENL  
 STUD,METAB PATHW(+13002); METABOLISM-PROTNS,PEPTOS,AM ACDS(+1-  
 3012); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); TOXICOL-GENL/-  
 EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506);  
 NEOPLSMS/NEOPL AGNTS-BIOCHEM(+24006); NEOPLSMS/NEOPL AGNTS-CAR-  
 RCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: MAMMALIA-UNSPECIFIED AND EXTINCT(85700)  
 ; HOMINIDAE(86215)

75045006

## COMMENTS FOR OPENING OF DISCUSSION ON NEOPLASTIC EFFECTS

MANCUSO T F

ANN N Y ACAD SCI 246. 1975 251-257 Coden: ANYAA

Descriptors: USA HUMAN EPIDEMIOLOGICAL STUDIES OCCUPATIONAL  
 CANCERS VINYL CHLORIDE

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEO-  
 PLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB HEALTH-ADMINISTR,S-  
 TATISTICS(+37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
 ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); EPIDEMIOL-ORGANIC  
 DIS,NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

## 2 POSSIBLE CASES OF ANGIO SARCOMA OF THE LIVER IN A GROUP OF SWEDISH VINYL CHLORIDE POLY VINYL CHLORIDE WORKERS/

BYREN D; HOLMBERG B

ANN N Y ACAD SCI 246. 1975 249-250 Coden: ANYAA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006);  
 CARDIOVASC SYST-BLD VESS PATHOL(+14508); TOXICOL-ENVIRONMNTL,-  
 INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007);  
 ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); EPIDEMIOL-ORGANIC  
 DIS,NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

75045003

## CHARACTERISTICS OF CASES OF ANGIO SARCOMA OF THE LIVER AMONG VINYL CHLORIDE WORKERS IN THE USA

HEATH C W JR; FALK H

ANN N Y ACAD SCI 246. 1975 231-236 Coden: ANYAA

Descriptors: EPIDEMIOLOGY STATISTICS DIAGNOSIS

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); SOCIAL  
 BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060);  
 PATHOLOGY-DIAGNOSTIC(12504); DIGESTIVE SYST-PATHOLOGY(+14006);  
 CARDIOVASC SYST-BLD VESS PATHOL(+14508); TOXICOL-ENVIRONMNTL,-  
 INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB  
 HEALTH-ADMINISTR,STATISTICS(+37010); ENVIRON HEALTH-OCCUPATNL  
 HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015);  
 EPIDEMIOL-ORGANIC DIS,NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

75045002

## B EPIDEMIOLOGICAL STUDIES MORTALITY EXPERIENCE OF A COHORT OF VINYL CHLORIDE POLY VINYL CHLORIDE WORKERS

NICHOLSON W J; HAMMOND E C; SEIDMAN H; SELIKOFF I J  
 ANN N Y ACAD SCI 246. 1975 225-230 Coden: ANYAA  
 Descriptors: USA EPIDEMIOLOGICAL STUDY CANCER LIVER LYMPHATIC SYSTEM HEMATOPOIETIC SYSTEM BRAIN PANCREAS COLON BONE CIRRHOSIS CHOLE LITHIASIS CARDIO VASCULAR DISEASE  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-HEART PATHOLOGY(+14506); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006); NERVOUS SYST-PATHOLOGY(+20506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); NEOPLSMS/NEOPL AGNTS-BLOOD,RES(24010); PUB HEALTH-ADMINISTR,STATISTICS(+37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); EPIDEMIOL-ORGANIC DIS,NEOPL-ASMS(+37054)

75045001

## INTERIM RESULTS OF EXPOSURE OF RATS HAMSTERS AND MICE TO VINYL CHLORIDE

KEPLINGER M L; GOODE J W; GORDON D E; CALANDRA J C  
 ANN N Y ACAD SCI 246. 1975 219-224 Coden: ANYAA  
 Descriptors: CARCINOGEN OCCUPATIONAL EXPOSURE LUNG ALVEOGENIC ADENOMA LIVER ANGIO SARCOMA MAMMARY ADENOCARCINOMA  
 Concept Codes: DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-LYMPHAT TISS,RES(15008); RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); RESPIRATORY SYST-PATHOLOGY(+16006); REPRODUCT SYST-PATHOLOGY(+16506); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)  
 Biosystematic Codes: CRICETIDAE(86310); MURIDAE(86375)

75045000

## PART II CARCINOGENESIS ASSOCIATED WITH VINYL CHLORIDE A EXPERIMENTAL STUDIES CARCINOGENICITY BIOASSAYS OF VINYL CHLORIDE CURRENT RESULTS

MALTONI C; LEFEMINE G  
 ANN N Y ACAD SCI 246. 1975 195-218 Coden: ANYAA  
 Descriptors: HUMAN RAT MOUSE HAMSTER POLY VINYL CHLORIDE CARCINOGENS OCCUPATIONAL EXPOSURE NEPHRO BLASTOMA ANGIO SARCOMA CONCHA CIMBAE TUMORS LIVER TUMORS  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006);

CARDIOVASC SYST-BLD VESS PATHOL(+14508); URIN SYST/EXT SECR-PATHOLOGY(+15506); RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); SENSE ORGANS-PATHOLOGY(+20006); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); DEVELOPMNTL BIOL-DESCRIP TERATOL(+25552); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)  
 Biosystematic Codes: HOMINIDAE(86215); CRICETIDAE(86310); MURIDAE(86375)

75044999

## ALTERATIONS OF LIVER AND SPLEEN AMONG WORKERS EXPOSED TO VINYL CHLORIDE

POPPER H; THOMAS L B  
 ANN N Y ACAD SCI 246. 1975 172-194 Coden: ANYAA  
 Descriptors: FIBROSIS ANGIO SARCOMA PRECURSOR LESIONS SINUSOIDAL LINING CELL PROLIFERATION HEPATOCYTE CHANGES CHOLESTASIS  
 Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(+02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)  
 Biosystematic Codes: HOMINIDAE(86215)

75044998

## HEMATOGENOUS DISSEMINATION OF INGESTED POLY VINYL CHLORIDE PARTICLES

VOLKHEIMER G  
 ANN N Y ACAD SCI 246. 1975 164-171 Coden: ANYAA  
 Descriptors: RAT GUINEA-PIG RABBIT CHICKEN DOG PIG  
 Concept Codes: BIOCHEM STUD-GENERAL(10060); MOVEMENT(+12100); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(+15002); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)  
 Biosystematic Codes: GALLIFORMES(85536); SUIDAE(85740); CANIDAE(85765); LEPORIDAE(86040); CAVIIDAE(86300); MURIDAE(86375)

75044997

## EXPERIMENTAL CHRONIC POISONING WITH VINYL CHLORIDE MONO CHLORO ETHENE

PRODAN L; SUCIU I; PISLARU V; ILEA E; PASCU L

ANN N Y ACAD SCI 246. 1975 159-163 Coden: ANYAA

Descriptors: GUINEA-PIG VITAMIN C ANTIDOTE-DRUG GROWTH DISTURBANCE LIVER KIDNEY SPLEEN LUNG

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-VITAMINS(10063); PHYSIOLOGY-GENERAL STUDIES(12002); DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); URIN SYST/EXT SECR-PATHOLOGY(+15506); RESPIRATORY SYST-PATHOLOGY(+16006); TOXICOL-ANTIDOTES,PREVENTIVE(+22505); TOXICOL-ENVIRON-MNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: CAVIIDAE(86300)

75044996

## EXPERIMENTAL ACUTE TOXICITY OF VINYL CHLORIDE MONO CHLORO ETHENE

PRODAN L; SUCIU I; PISLARU V; ILEA E; PASCU L

ANN N Y ACAD SCI 246. 1975 154-158 Coden: ANYAA

Descriptors: MOUSE RAT GUINEA-PIG RABBIT HUMAN OCCUPATIONAL HAZARD NARCOSIS MUSCULAR CONTRACTION CONVULSIONS RESPIRATORY DISTURBANCES CIRCULATORY DISORDERS LUNG LIVER KIDNEY BRAIN SPLEEN

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); MOVEMENT(12100); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); URIN SYST/EXT SECR-PATHOLOGY(+15506); RESPIRATORY SYST-PATHOLOGY(+16006); MUSCLE SYST-PATHOLOGY(+17506); NERVOUS SYST-PATHOLOGY(+20506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: LEPORIDAE(86040); HOMINIDAE(86215); CAVIIDAE(86300); MURIDAE(86375)

75044995

## A PROCEDURE FOR PREPARING CARBON-14 LABELED VINYL CHLORIDE

WAGNER E R; MUELDER W W

ANN N Y ACAD SCI 246. 1975 152-153 Coden: ANYAA

Descriptors: PREPARATIVE GAS CHROMATOGRAPHY

Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(+06504); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

75044994

## VINYL CHLORIDE MONOMER COMMENTS ON ITS HEPATO TOXICITY AND INTERACTION WITH 1,1-DICHLOROETHYLENE

JAEGER R J

ANN N Y ACAD SCI 246. 1975 150-151 Coden: ANYAA

Descriptors: HUMAN BIS CHLOROMETHYL ETHER FORMATION CARCINOGENS OCCUPATIONAL EXPOSURE

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOL-ECUL PROP,MACROMOLEC(10506); PATHOLOGY-GENERAL STUDIES(12502); PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-PATHOLOGY(+14006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

75044993

## PRELIMINARY STUDIES OF THE FATE OF INHALED VINYL CHLORIDE MONOMER IN RATS

HEFNER R E JR; WATANABE P G; GEHRING P J

ANN N Y ACAD SCI 246. 1975 135-149 Coden: ANYAA

Descriptors: METABOLISM ALCOHOL DEHYDROGENASE PATHWAY

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); ENZYMES-PHYSIOLOGICAL STUDIES(+10808); METABOLISM-GENL STUD,METAB PATHW(+13002); RESPIRATORY SYST-GENL STUD,METHS(16001); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: MURIDAE(86375)

75044992

## UNUSUAL SPLENOMEGALIC LIVER DISEASE AS EVIDENCED BY PERITONEOSCOPY AND GUIDED LIVER BIOPSY AMONG POLY VINYL CHLORIDE PRODUCTION WORKERS/

MARSTELLER H J; LELBACH W K; MUELLER R; GEDIGK P

ANN N Y ACAD SCI 246. 1975 95-134 Coden: ANYAA

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-DIAGNOSTIC(12504); DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

75044991

LIVER DISEASE AMONG POLY VINYL CHLORIDE PRODUCTION WORKERS  
 CREECH J L JR; MAKK L  
 ANN N Y ACAD SCI 246, 1975 88-94 Coden: ANYAA  
 Descriptors: USA ABNORMAL BIOCHEMICAL TESTS ANGIO SARCOMA  
 CIRRHOSIS FIBROSIS ENLARGED LIVER ENLARGED SPLEEN VASCULAR  
 ABNORMALITIES  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); CLIN  
 BIOCHEM-GENL STUDIES(+10006); BIOCHEM STUD-GENERAL(10060);  
 DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS  
 PATHOL(+14508); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006);  
 BLOOD/BODY FLDS-LYMPHAT TISS,RES(+15008); TOXICOL-ENVIRONMNTL-  
 INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007);  
 PUB HEALTH-ADMINISTR,STATISTICS(+37010); ENVIRON HEALTH-OCCUP-  
 ATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)  
 Biosystematic Codes: HOMINIDAE(86215)

75044990

AN EPIDEMIOLOGIC STUDY OF BLOOD SCREENING TESTS AND ILLNESS  
 HISTORIES AMONG CHEMICAL WORKERS INVOLVED IN THE MANUFACTURE  
 OF POLY VINYL CHLORIDE  
 WYATT R H; KOTCHEN J M; HOCHSTRASSER D L; BUCHANAN J W JR;  
 CAMPBELL D R; SLAUGHTER J C; DOLL A H  
 ANN N Y ACAD SCI 246, 1975 80-87 Coden: ANYAA  
 Descriptors: USA LIVER ANGIO SARCOMA  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); PATHOLOGY-GENERAL STUDIES(12502);  
 DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS  
 PATHOL(+14508); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(+15002);  
 BLOOD/BODY FLDS-BLD,LYM,RES PATH(15006); BLOOD/BODY  
 FLDS-LYMPHAT TISS,RES(+15008); TOXICOL-ENVIRONMNTL,INDUSTR(+22-  
 506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); PUB  
 HEALTH-ADMINISTR,STATISTICS(+37010); PUB HEALTH-HEALTH  
 SERV,MEOL CARE(37012); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
 ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); EPIDEMIOLOG-ORGANIC  
 DIS,NEOPLASMS(+37054)  
 Biosystematic Codes: HOMINIDAE(86215)

75044989

BONE LESIONS AMONG POLY VINYL CHLORIDE PRODUCTION WORKERS IN  
 JAPAN  
 SAKABE H  
 ANN N Y ACAD SCI 246, 1975 78-79 Coden: ANYAA  
 Descriptors: ACRO OSTEOLYSIS STATISTICS  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); CHORDATE BODY REGNS-EXTREMITIES(11318);  
 BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); PUB HEALTH-ADMINISTR,STA-  
 TISTICS(+37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
 ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)  
 Biosystematic Codes: HOMINIDAE(86215)

75044988

PERSISTENCE OF VINYL CHLORIDE INDUCED LIVER INJURY AFTER  
 CESSATION OF EXPOSURE  
 BERK P D; MARTIN J F; WAGGONER J G  
 ANN N Y ACAD SCI 246, 1975 70-77 Coden: ANYAA  
 Descriptors: HUMAN WORKERS HEPATIC FIBROSIS  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL  
 HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)  
 Biosystematic Codes: HOMINIDAE(86215)

75044987

CLINICAL MANIFESTATIONS IN VINYL CHLORIDE POISONING  
 SUCIU I; PRODAN L; ILEA E; PADURARU A; PASCU L  
 ANN N Y ACAD SCI 246, 1975 53-69 Coden: ANYAA  
 Descriptors: HUMAN WORKERS NERVOUS SYSTEM CARDIO VASCULAR  
 SYSTEM DIGESTIVE SYSTEM RESPIRATORY SYSTEM SKIN ENDOCRINE  
 ALTERATIONS PROPHYLAXIS THERAPY  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); PATHOLOGY-THERAPY(12512); DIGESTIVE  
 SYST-PATHOLOGY(+14006); CARDIOVASC SYST-HEART PATHOLOGY(+1450-  
 6); CARDIOVASC SYST-BLD VESS PATHOL(+14508); RESPIRATORY  
 SYST-PATHOLOGY(+16006); ENDOCRINE SYST-GENERAL STUDIES(+17002);  
 INTEGUMENT SYST-PATHOLOGY(+18506); NERVOUS SYST-PATHOLOGY(+20506);  
 TOXICOL-ANTIDOTES,PREVENTIVE(22505); TOXICOL-ENVIRONM-  
 NTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
 ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)  
 Biosystematic Codes: HOMINIDAE(86215)

75044986

## CHANGES IN PULMONARY FUNCTION IN WORKERS EXPOSED TO VINYL CHLORIDE AND POLY VINYL CHLORIDE

MILLER A; TEIRSTEIN A S; CHUANG M; SELIKOFF I J

ANN N Y ACAD SCI 246. 1975 42-52 Coden: ANYAA

Descriptors: AIR FLOW DIMINUTION SMOKING

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BEHAVIOR BIOL-HUMAN BEHAVIOR(07004); BIOCHEM STUD-GENERAL(10060); MOVEMENT(12100); RESPIRATORY SYST-PATHOLOGY(+16006); PSYCHIATRY-ADDICTION(INC SMOKING)(21004); TOXICOL-GENL/EXP STUDS,METHS-(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); PLANT PHYSIOL-CHEM CONSTITUENTS(51522)

Biosystematic Codes: PLANTAE-UNSPECIFIED(11000); HOMINIDAE(-86215)

75044985

## PREVALENCE OF DISEASE AMONG VINYL CHLORIDE AND POLY VINYL CHLORIDE WORKERS

LILIS R; ANDERSON H; NICHOLSON W J; DAUM S; FISCHBEIN A S; SELIKOFF I J

ANN N Y ACAD SCI 246. 1975 22-41 Coden: ANYAA

Descriptors: HUMAN ABNORMAL PERIPHERAL CIRCULATION HEPATOMEGALY CIRRHOSIS SPLENOMEGALY PULMONARY CHANGES

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); CHORDATE BODY REGNS-EXTREMITIES(11318); MOVEMENT(12100); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLOS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLOS-LYMPHAT TISS,RES(+15008); RESPIRATORY SYST-PATHOLOGY(+16006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(+37054)

Biosystematic Codes: HOMINIDAE(86215)

75044984

## FURTHER RESULTS IN POLY VINYL CHLORIDE PRODUCTION WORKERS

LANGE C-E; JUHE S; STEIN G; VELTMAN G

ANN N Y ACAD SCI 246. 1975 18-21 Coden: ANYAA

Descriptors: HUMAN CARCINOGEN

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-GENERAL STUDIES(12502); PATHOLOGY-NECROSIS(12510); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLASMS/NEOPL AGENTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

## CLINICAL MANIFESTATIONS AND COURSE OF VINYL CHLORIDE DISEASE

VELTMAN G; LANGE C-E; JUHE S; STEIN G; BACHNER U

ANN N Y ACAD SCI 246. 1975 6-17 Coden: ANYAA

Descriptors: HUMAN WORKERS THROMBOCYTOPENIA LIVER DYS FUNCTION SPLENOMEGALY RETICULOCYTOSIS

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLOS-BLOOD CELL STUDS(15004); BLOOD/BODY FLOS-BLD,LYM,RES PATH(+15006); BLOOD/BODY FLOS-LYMPHAT TISS,RES(+15008); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

75044982

## SYMPOSIUM ON TOXICITY OF VINYL CHLORIDE POLY VINYL CHLORIDE NEW-YORK NEW-YORK USA MARCH 10-11 1974/

SELIKOFF I J; HAMMOND E C

ANN N Y ACAD SCI 246. 1975 4-337 Coden: ANYAA

Concept Codes: GENL BIOL-SYMPOsia,PROCDNGS,REVW(+00520); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

75041304

## PERSISTENCE OF VINYL CHLORIDE INDUCED LIVER INJURY AFTER CESSATION OF EXPOSURE

MARTIN J F; WAGGONER J G; BERK P D

GASTROENTEROLOGY 67 (4). 1974 814 Coden: GASTA

Descriptors: ABSTRACT HUMAN OCCUPATIONAL EXPOSURE FIBROSIS ANGIO SARCOMA CARCINOGEN

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); NUTRITION-MALNUTRITION,OBESITY(13203); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLOS-BLD,LYM,RES PATH(15006); BLOOD/BODY FLOS-LYMPHAT TISS,RES(15008); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLASMS/NEOPL AGENTS-CARCINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

75044983

75041265

## HEPATIC ANGIO SARCOMA IN MAN AND RODENTS FOLLOWING PROLONGED EXPOSURE TO VINYL CHLORIDE

GORDON D E; THOMAS L B; KENT G; CALANDRA J; BAHU B; POPPER H  
GASTROENTEROLOGY 67 (4). 1974 794 Coden: GASTA

Descriptors: ABSTRACT MOUSE CARCINOGEN OCCUPATIONAL EXPOSURE  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006);  
 CARDIOVASC SYST-BLD VESS PATHOL(+14508); BONE,JNTS,FASC,CONN/-  
 ADIP-PATHOL(18006); TOXICOL-GENL/EXP STUDS,METHS(+22501);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CAR-  
 CINOGENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013);  
 EPIDEMIOL-ORGANIC DIS,NEOPLASMS(37054)

Biosystematic Codes: HOMINIDAE(86215); RODENTIA-UNSPECIFIED-  
 (86265); MURIDAE(86375)

75041249

## HEPATO TOXICITY AMONG POLY VINYL CHLORIDE PRODUCTION WORKERS DURING 1ST YEAR OF SURVEILLANCE PROGRAM

CREECH J L; MAKK L; WHELAN J G JR; TAMBURRO C H  
GASTROENTEROLOGY 67 (4). 1974 786 Coden: GASTA

Descriptors: ABSTRACT HUMAN CARCINOGENESIS FIBROSIS ANGIO  
 SARCOMA ANGIOGRAPHY DIAGNOSIS

Concept Codes: PHOTOGRAPHY-METHS,MATLS,APPARAT(01012);  
 SOCIAL BIOL/HUMAN ECOLOGY(05500); RADIATION BIOL-RADTN,ISOTOP  
 TECH(+06504); BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL-RAD-  
 IOLOGIC(11106); PATHOLOGY-DIAGNOSTIC(+12504); DIGESTIVE  
 SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PATHOLOGY(+14006);  
 CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-BLD  
 VESS PATHOL(+14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-DIA-  
 GNS METH(+24001); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007);  
 PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPA-  
 TNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

75037098

## TECHNIQUE FOR THE REPEATED PERFORMANCE OF LEFT VENTRICULAR CINE ANGIOGRAMS AND PRESSURES IN THE CONSCIOUS DOG

GARNER D; LAKS M; BEAZELL J

FED PROC 34 (3). 1975 435 Coden: FEPPA

Descriptors: ABSTRACT CORDIS CORONARY CATHETERS POLY VINYL  
 CHLORIDE

Concept Codes: PHOTOGRAPHY-METHS,MATLS,APPARAT(01012);  
 RADIATION BIOL-RADTN,ISOTOP TECH(+06504); BIOPHYS-BIOENGINEER-  
 ING(10511); ANATOMY/HISTOL-RADIOLOGIC(11106); MOVEMENT(12100);  
 CARDIOVASC SYST-GENL STUDS,METHS(+14501); CARDIOVASC  
 SYST-PHYSIOL,BIOCHEM(+14504)

Biosystematic Codes: CANIDAE(85765)

75035132

## VINYL CHLORIDE INDUCED LIVER DISEASE FROM IDIOPATHIC PORTAL HYPERTENSION BANTIS SYNDROME TO ANGIO SARCOMAS

THOMAS L B; POPPER H; BERK P D; SELIKOFF I; FALK H  
N ENGL J MED 292 (1). 1975 17-22 Coden: NEJMA

Descriptors: HUMAN OCCUPATIONAL EXPOSURE  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
 STUD-GENERAL(10060); PATHOLOGY-GENERAL STUDIES(12502);  
 DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS  
 PATHOL(+14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL(18006); TOXIC-  
 OL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINO-  
 GENS(+24007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

75027245

## SMOKE AND TOXICITY HAZARDS OF PLASTICS IN FIRE

BOWES P C

ANN OCCUP HYG 17 (2). 1974 (RECD 1975) 143-157 Coden: AOHYA

Descriptors: HUMAN ASPHYXIA POLY URETHANE POLY VINYL  
 CHLORIDE BUILDING MATERIALS TOXIC GASES

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504);  
 BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(+10060); EXTERN  
 EFF-HOT(+10618); RESPIRATORY SYST-PATHOLOGY(+16006); TOXICOL-  
 ENVIRONMNTL,INDUSTR(+22506); TEMPERATURE-GENL,METHS(23001);  
 ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

75026130

## THE USE OF FETTSIMULANS HB-307 FOR THE DETERMINATION OF THE GLOBAL MIGRATION IN FATTY FOODSTUFFS

VAN BATTUM D; RIJK M A H

ANN IST SUPER SANITA 8 (2). 1972 (RECD 1973) 421-431  
Coden: AISSA

Descriptors: FAT SIMULATING AGENT TESTING POLY VINYL  
 CHLORIDE PLASTIC FOOD PACKAGING MATERIAL

Concept Codes: BIOCHEM METH-GENERAL(+10050); BIOCHEM  
 STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(+10066); MOVEMENT(12-  
 100); FOOD TECH-EVALNS PHYS,CHEM PROPS(+13530); FOOD  
 TECH-PREP,PROCESSNG,STORAGE(+13532);  
 TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502)

75026128

## GLOBAL MIGRATION INTO FATTY FOODS

BAUMGARTNER E

ANN IST SUPER SANITA 8 (2). 1972 (RECD 1973) 395-409

Codon: AISSA

Descriptors: ANALYSIS METHOD POLY VINYL CHLORIDE POLY OLEFINS PACKAGING

Concept Codes: BIOCHEM METH-GENERAL(\*10050); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(\*10066); MOVEMENT(12-100); FOOD TECH-EVALNS PHYS.CHEM PROPS(\*13530); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); TOXICOL-FOOD,RESIDS,ADIT,PRESRV(\*22502)

75023432

## EXPERIMENTAL INVESTIGATION OF TOXICITY OF CADMIUM AND ZINC CAPRYLATES

TARASENKO N Y; VORDBEVA R S; SPIRIDINOVA V S; SHABALINA L P

J HYG EPIDEMIOL MICROBIOL IMMUNOL (PRAGUE) 18 (2). 1974 144-153 Codon: JHEMA

Descriptors: RAT MOUSE GASTRO INTESTINAL TRACT TESTES FIBROSIS POLY VINYL CHLORIDE STABILIZERS OCCUPATIONAL HAZARD

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); PATHOLOGY-INFLAMMATN,IN-FLAM DIS(\*12508); METABOLISM-GENL STUD,METAB PATHW(\*13002); MINERALS(\*13010); DIGESTIVE SYST-PHYSIOL,BIOCHEM(14004); DIGESTIVE SYST-PATHOLOGY(\*14006); RESPIRATORY SYST-GENL STUD,METHS(16001); REPRODUCT SYST-PHYSIOL,BIOCHEM(16504); REPRODUCT SYST-PATHOLOGY(\*16506); ROUTES OF IMMUNIZ,INFECT,TH-ERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL HEALTH(\*3-7013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215); MURIDAE(86375)

75013414

## PYROLYTIC EVAPORATION OF A PLASTICIZER FROM POLY VINYL CHLORIDE MEAT WRAPPING FILM/

JAEGER R J; HITES R A

BULL ENVIRON CONTAM TOXICOL 11 (1). 1974 45-48 Codon: BECTA

Concept Codes: BIOCHEM-GASES(\*10012); BIOCHEM STUD-GENERAL(-10060); EXTERN EFF-HOT(\*10618); FOOD TECH-MEAT,MEAT BY-PRODUCTS(10516); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); TOXICOL-FOOD,RESIDS,ADIT,PRESRV(\*22502); TEMPERATURE-GENL,METHS(\*23001)

75012891

## PROPORTIONAL MORTALITY AMONG VINYL CHLORIDE WORKERS

MONSON P R; PETERS J M; JOHNSON M H

LANCET 2 (7877). 1974 397-398 Codon: LANCA  
 Descriptors: HUMAN CARCINOGEN LIVER BILIARY LUNG BRAIN CANCERS

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-NECROSIS(\*12510); DIGESTIVE SYST-PATHOLOGY(\*14006); RESPIRATORY SYST-PATHOLOGY(\*16006); NERVOUS SYST-PATHOLOGY(\*20506); TOXICOL-ENVIRONMNTL,INDUSTR(\*-22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(\*24007); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

75009430

## ULTRASONICS ACCELERATES THE DRYING OF HEAT SENSITIVE MATERIALS

FAIRBANKS H V; SPAIN J M

PROC WEST PHARMACOL SOC 17. 1974 302-304 Codon: PWPSA

Descriptors: POLY VINYL CHLORIDE COAL

Concept Codes: BIOCHEM STUD-GENERAL(\*10060); MINERALS(\*1006-9); BIOPHYS-GENERAL BIOPHYS TECH(\*10504); EXTERN EFF-SONICS,ULTRASONICS(\*10608); TEMPERATURE-GENL,METHS(\*23001)

75008042

## THE ENDO TRACHEAL CUFF A COMPARATIVE STUDY

DOBRIN P B; GOLDBERG E M; CANFIELD T R

ANESTH ANALG 53 (3). 1974 456-460 Codon: AACRA

Descriptors: HUMAN SILICONE POLY VINYL CHLORIDE LATEX

Concept Codes: BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-BIOENGINEERING(\*10511); EXTERN EFF-PRESSURE(\*10606); EXTERN EFF-PHYSICAL,MECH EFFECTS(10612); PATHOLOGY-THERAPY(12-512); RESPIRATORY SYST-GENL STUD,METHS(\*16001); IN VITRO STUDS-CELLULR,SUBCELL(32600)

Biosystematic Codes: HOMINIDAE(86215)

75002217

## INHALATION TOXICITY STUDIES ON HALOGENATED HYDRO CARBONS

JAEGER R J; CONOLLY R B; MURPHY S D

PHARMACOLOGIST 16 (2). 1974 229 Coden: PHMCA

Descriptors: ABSTRACT RAT 1 1 DI BROMO ETHYLENE 1 1 DI  
CHLORO ETHYLENE 1 1 DI FLUORO ETHYLENE CARBON TETRA CHLORIDE  
VINYL CHLORIDE MONOMER HEPATO TOXICITY ALANINE ALPHA KETO  
GLUTARATE TRANS AMINASE

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); ENZYMES-PHYSIOLOGICAL  
STUDIES(\*10808); METABOLISM-GENL STUD,METAB PATHW(\*13002);  
DIGESTIVE SYST-PATHOLOGY(\*14006); PHARMACOL-DRUG METAB,METAB  
STIMU(\*22003); TOXICOL-GENL/EXP STUDS,METHS(\*22501)

Biosystematic Codes: MURIDAE(86375)

75000379

GAS LIQUID CHROMATOGRAPHY DETERMINATION OF PHTHALATE ESTERS  
ELUTED FROM POLY VINYL CHLORIDE MEDICAL DEVICES

OBA T; ITO H; MIZUMACHI S

BULL NATL INST HYG SCI (TOKYO) 91. 1973 (RECD 1974) 1-4

Coden: ESKHA

Descriptors: BLOOD BAG OXYGENATOR INFUSION SET ARTIFICIAL  
KIDNEY

Concept Codes: BIOCHEM-GASES(\*10012); BIOCHEM METH-GENERAL(-  
\*10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS  
TECH(\*10504); BIOPHYS-BIOENGINEERING(\*10511); MOVEMENT(12100);  
BLOOD/BODY FLDS-GENL STUDS,METHS(\*15001); BLOOD/BODY  
FLDS-BLOOD,LYMPH STUD(15002); URIN SYST/EXT SECR-GEN  
STUD,METH(\*15501); RESPIRATORY SYST-GENL STUD,METHS(16001);  
RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); TOXICOL-GENL/EXP  
STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(22506)

58069666

SUBSTANTIATION OF MAXIMUM PERMISSIBLE CONCENTRATION OF DI  
BUTYL PHTHALATE IN THE AIR OF INDUSTRIAL PREMISES

ANTONYUK O K; ALOYREVA M V

GIG TR PROF ZABOL 17 (8). 1973 26-30. Coden: GTPZA

Descriptors: USSR HUMAN ANIMALS POLY VINYL CHLORIDE  
PLASTICIZER

Concept Codes: GENL BIOL-INSTITUT,ADMIN,LEGISLN(00508);  
MATHEMATIC BIOL/STATISTIC METH(04500); BIOCHEM-GASES(10012);  
BIOCHEM STUD-GENERAL(10060); EXTERN EFF-HOT(10618);  
TOXICOL-ENVIRONMNTL,INDUSTR(\*22506);  
TEMPERATURE-GENL,METHS(23001); PUB HEALTH-ADMINISTR,STATISTIC-  
S(\*37010); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON  
HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150); HOMINID-  
AE(86215)

58069662

EVALUATION AND REDUCTION OF AIR CONTAMINANTS PRODUCED BY  
THERMAL CUTTING AND SEALING OF POLY VINYL CHLORIDE PACKAGING  
FILM

VAN HOUTEN R W; CUDWORTH A L; IRVINE C H

AM IND HYG ASSOC J 35 (4). 1974 218-222. Coden: AIHAA

Descriptors: HUMAN MACHINE OPERATOR PLASTICS DECOMPOSITION  
PRODUCTS HYDRO CHLORIC-ACID PARTICULATES MEAT FOOD PRODUCTS  
PACKAGING BREATHING ZONE FUME PRODUCTION TEMPERATURE

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504);  
BIOCHEM-GASES(\*10012); BIOCHEM STUD-GENERAL(\*10060); MINERALS-  
(\*10069); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); EXTERN  
EFF-HOT(10618); FOOD TECH-GENL STUDS,METHS(13502); FOOD  
TECH-MEAT,MEAT BY-PRODUCTS(13516); FOOD TECH-PREP,PROCESSNG,S-  
TORAGE(\*13532); RESPIRATORY SYST-GENL STUD,METHS(\*16001);  
TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); PUB HEALTH-ADMINISTR,STA-  
TISTICS(37010); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013);  
ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

58069642

A SIMPLE RELIABLE METHOD FOR THE DETERMINATION OF AIRBORNE  
HEXAVALENT CHROMIUM

ABELL M T; CARLBERG J R

AM IND HYG ASSOC J 35 (4). 1974 229-233. Coden: AIHAA

Descriptors: HUMAN OCCUPATIONAL EXPOSURE AIR POLLUTION POLY  
VINYL CHLORIDE MEMBRANE FILTER DI PHENYL CARBAZIDE COLORIMETRY  
SAMPLING

Concept Codes: GENERAL LABORATORY METHODS(\*01004); GENERAL  
FIELD METHODS(\*01008); SOCIAL BIOL/HUMAN ECOLOGY(05500);  
ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM METH-MINERALS-  
(\*10059); BIOCHEM STUD-GENERAL(10060); MINERALS(10069);  
BIOPHYS-GENERAL BIOPHYS TECH(\*10504); TOXICOL-ENVIRONMNTL,IND-  
USTR(\*22506); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON  
HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: HOMINIDAE(86215)

58067586

## CARCINOGENICITY BIOASSAYS OF VINYL CHLORIDE PART 1 RESEARCH PLAN AND EARLY RESULTS

MALTONI C; LEFEMINE G

ENVIRON RES 7 (3). 1974 387-405. Coden: ENVRA

Descriptors: ANIMAL MOUSE RAT CARCINOGEN ZYMBAL GLAND CARCINOMA NEPHRO BLASTOMA LIVER ANGIO SARCOMA PULMONARY ADENOMA MAMMARY CARCINOMA

Concept Codes: BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL--GROSS(11102); PATHOLOGY-GENERAL STUDIES(12502); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC SYST-BLD VESS PATHOL(+1450-8); URIN SYST/EXT SECR-PATHOLOGY(+15506); RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); RESPIRATORY SYST-PATHOLOGY(+1600-6); REPRODUCT SYST-PATHOLOGY(+16506); BONE,JNTS,FASC,CONN/AD1-P-PATHOL(18006); SENSE ORGANS-PATHOLOGY(+20006); SENSE ORGANS-DEAFNSS,SPEECH,HEAR(20008); ROUTES OF IMMUNIZ,INFECT,T-HERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); DEVELOPMNTL BIOL-PATHOLOGICAL(25503); LABORATORY ANIMALS-GENL STUDS(28002); ENVIRON HEALTH-OCCUPATNL HEALTH(37013)

Biosystematic Codes: MAMMALIA-UNSPECIFIED AND EXTINCT(85700); MURIDAE(86375)

58065425

## ALTERATIONS OF SOFT POLY VINYL CHLORIDE FILM IN THE INTESTINAL CANAL

GREINER H

Z RECHTSMED 74 (1). 1974 75-79. Coden: ZRMDA

Descriptors: HUMAN

Concept Codes: BIOCHEM STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(+14006); DENTAL/ORAL BIOL-GENL STUD,METHS(1900-1); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+22501)

Biosystematic Codes: HOMINIDAE(86215)

58063944

## ACCUMULATION OF DI-2 ETHYLHEXYL PHTHALATE IN WHOLE BLOOD PLATELET CONCENTRATES AND PLATELET-POOR PLASMA

CONTRERAS T J; SHEIBLEY R H; VALERI C R

TRANSFUSION (PHILA) 14 (1). 1974 34-46. Coden: TRANA

Descriptors: HUMAN POLY VINYL CHLORIDE STORAGE BAGS TEMPERATURE

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); BIOCHEM STUD-GENERAL(+10060); BIOCHEM STUD-CARBOHYDR.(10068); BIOPHYS-GENERAL BIOPHYS TECH(10504); EXTERN EFF-TEMPERATURE(10614); EXTERN EFF-COLD(10616); MOVEMENT(12100); METABOLISM-GENL STUD,METAB PATHW(13002); BLOOD/BODY FLDS-GENL STUDS,METHS(+15-001); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(+15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004); TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,INDUSTR(22506); TEMPERATURE-GENL-

METHS(23001)

Biosystematic Codes: HOMINIDAE(86215)

58055681

## MODEL EXPERIMENT FOR QUANTITATIVE PHOTOMETRY ON TISSUE SLICES

HEINZEL W

MICROSC ACTA 75 (4). 1974 346-351. Coden: MSACC

Descriptors: POLY VINYL CHLORIDE PAPER PROTEIN AMIDO BLACK 10B NITRO BENZENE EQUATION

Concept Codes: MICROSCOPY-HISTOL,HISTOCHEM TECH(+01056); MATHEMATIC BIOL/STATISTIC METH(+04500); BIOCHEM METH-GENERAL(+10050); BIOCHEM METH-PROTNS,PEPTDS,AM AC(+10054); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOPHYS-GENERAL BIOPHYS TECH(+10504)

58046404

## COMPARATIVE HYGIENIC EVALUATION OF POLY VINYL CHLORIDE MATERIALS USED IN HOUSING

ANTONYUK O K

GIG SANIT 38 (9). 1973 92-94. Coden: GISAA

Descriptors: DI BUTYL PHTHALATE DI OCTYL PHTHALATE DI CAPRYL PHTHALATE PLASTICIZERS VOLATILIZATION

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM STUD-GENERAL(+10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(+10506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

58046379

## TOXIC EFFECTS AND ACTION OF CHLORINATED BYPRODUCTS FROM VINYL CHLORIDE PRODUCTION ON ESCHERICHIA-COLI STRAIN K-12

HAGSTROM A; NOMARK S

AMBIO 3 (2). 1974 77-79. Coden: AMBOC

Descriptors: DI CHLORO ETHANE TRI CHLORO ETHANE CELL MEMBRANE DAMAGE ENVIRONMENTAL POLLUTANTS

Concept Codes: BIOCHEM STUD-GENERAL(+10060); BIOPHYS-MEMBRANE PHENOMENA(+10508); EXTERN EFF-TEMPERATURE(10614); PATHOLOGY-NECROSIS(12510); TOXICOL-GENL/EXP STUDS,METHS(+2250-1); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TEMPERATURE-GENL,METHS(23001); BACTERIA-MORPHOLOGY,CYTOLOGY(+30500); BACTERIA-PHY-SIOLOGY,BIOCHEMISTRY(+31000); MICROBIDLOG APPARAT,METHS,MEDIA-(32000); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: EUBACTERIALES(07200)

58044498

ANGIO SARCOMA OF THE LIVER FOLLOWING VINYL CHLORIDE EXPOSURE  
BLOCK J B

JAMA (J AM MED ASSOC) 229 (1). 1974 53-54. Coden: JAMAA

Descriptors: HUMAN CARCINOGEN

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM  
STUD-GENERAL(10060); DIGESTIVE SYST-PATHOLOGY(\*14006);  
CARDIOVASC SYST-BLD VESS PATHOL(\*14508); BONE,JNTS,FASC,CONN/-  
ADIP-PATHOL(18006); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); NEOP-  
LSMS/NEOPL AGNTS-CARCINOGENS(\*24007); ENVIRON HEALTH-OCCUPATNL  
HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

58028415

HYGIENIC EVALUATION OF WORKING CONDITIONS AND HEALTH STATUS  
OF WORKERS IN THE PRODUCTION OF BLOCK POLY VINYL CHLORIDE

FILATOVA V S; GRONBERG E SH; RADZYUKEVICH T M; REZNIK N D;  
TOMICHEV A I

GIG TR PROF ZABOL 18 (1). 1974 3-6. Coden: GTPZA

Descriptors: HUMAN AIR POLLUTION NOISE FUNCTIONAL DISORDERS

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(\*07504);  
BIOCHEM STUD-GENERAL(10060); EXTERN EFF-SONICS,ULTRASONICS(\*1-  
0608); PATHOLOGY-GENERAL STUDIES(\*12502); TOXICOL-ENVIRONMNTL-  
INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013);  
ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015); ENVIRON HEALTH-MISC-  
ELL STUDS(\*37019)

Biosystematic Codes: HOMINIDAE(86215)

58023033

THE SO-CALLED VINYL CHLORIDE DISEASE AN OCCUPATIONAL  
SYSTEMIC SCLEROSIS

LANGE C-E; JUEHE S; STEIN G; VELTMAN G

INT ARCH ARBEITSMED 32 (1-2). 1974 (RELEASED 1973) 1-32.  
Coden: IAANB

Descriptors: HUMAN VAPOR EXPOSURE SKIN CHANGES COLLAGEN  
RAYNAUDS SYNDROME THROMBOCYTOPENIA SPLENOMEGALY LIVER  
DISORDERS LUNG CHANGES

Concept Codes: GENL BIOL-TAXONOMY,NOMENCLATUR(00504);  
MICROSCOPY-HISTOL,HISTOCHEM TECH(01056); CYTOLOGY/CYTOCHEM-HU-  
MAN(02508); SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM-GASES(\*-  
10012); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PE-  
PTIDES,AMINO ACID(10064); BIOPHYS-GENERAL STUDIES(10502);  
ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108); CHORDATE BODY  
REGNS-EXTREMITIES(11318); PATHOLOGY-GENERAL STUDIES(\*12502);  
METABOLISM-PROTNS,PEPTDS,AM ACDS(13012); DIGESTIVE SYST-PATHO-  
LOGY(14006); CARDIOVASC SYST-BLD VESS PATHOL(\*14508);  
BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); BLOOD/BODY  
FLDS-BLD,LYM,RES PATH(\*15006); BLOOD/BODY FLDS-LYMPHAT  
TISS,RES(15008); RESPIRATORY SYST-PATHOLOGY(16006); BONE,JNTS-  
FASC,CONN/ADIP-PATHOL(\*18006); INTEGUMENT SYST-PATHOLOGY(\*18-  
506); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCC-

UPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*3701-  
5)

Biosystematic Codes: HOMINIDAE(86215)

58010866

EXPERIMENTAL DATA ON HYGIENIC STANDARDIZATION OF DI BUTYL  
TIN SULFIDE IN WATER BODIES

MAZAEV V T; SHLEPNINA T G

GIG SANIT 38 (8). 1973 10-13. Coden: GISAA

Descriptors: MOUSE RAT RABBIT POLY VINYL CHLORIDE STABILIZER  
MAXIMUM PERMISSIBLE CONCENTRATION TOXICITY

Concept Codes: GENL BIOL-INSTITUT,ADMIN,LEGISLN(00508);  
ECOLOGY-OCEANOGRAPHY,LIMNOLOGY(\*07510); BIOCHEM STUD-GENERAL(-  
10060); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); PUB HEALTH-ADMIN-  
ISTR,STATISTICS(\*37010); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37-  
015)

Biosystematic Codes: LEPORIDAE(86040); MURIDAE(86375)

57063502

THE PHYSICAL BASIS FOR ADHESION OF MICROORGANISMS TO  
SURFACES

MACHMERTH R

Z GESAMTE HYG GRENZGEB 18 (9). 1972 642-646. Coden:  
ZHYGA

Descriptors: STAPHYLOCOCCUS-AUREUS BACTERIA HOSPITAL SURFACE  
CONTAMINATION TILE METAL GLASS POLY VINYL CHLORIDE FOIL WOOD  
FABRIC DISINFECTION

Concept Codes: BIOCHEM STUD-GENERAL(10060); MINERALS(10069);  
BIOPHYS-GENERAL STUDIES(\*10502); BACTERIA-PHYSIOLOGY,BIOCHEMI-  
STRY(\*31000); MICROBIOLOG APPARAT,METHS,MEDIA(32000); MED/CLIN  
MICROBIOL-BACTERIOLOGY(\*36002); PUB HEALTH-DISINFCT,VECT  
CNT,PEST(\*37008); PUB HEALTH-HEALTH SERV,MEDL CARE(37012); PUB  
HEALTH-INANIMATE DIS VECTORS(\*37060); DISINFECTION,DISINFECTA-  
NTS,STERL(\*39500); FORESTRY AND FOREST PRODUCTS(53500)

Biosystematic Codes: BACTERIA-UNSPECIFIED(06000); EUBACTERI-  
ALES(07200); SPERMATOPHYTA-UNSPECIFIED(25000)

57054096

POLYMER FORMULATIONS OF MOSQUITO LARVICIDES PART 5 EFFECTS OF CONTINUOUS LOW LEVEL CHLORPYRIFOS RESIDUES ON THE DEVELOPMENT OF CULEX-PIPIENS-QUINQUEFASCIATUS POPULATIONS IN THE LABORATORY

NELSON L L; MILLER T A; YOUNG W W

MOSQ NEWS 33 (3). 1973 396-402. Coden: MOSQA

Descriptors: POLY VINYL CHLORIDE

Concept Codes: ECOLOGY-ANIMAL(07508); BIOCHEM STUD-GENERAL(-10060); PATHOLOGY-NECROSIS(12510); TOXICOL-GENL/EXP STUDS,METHS(+22501); DEVELOPMNTL BIOL-GENL,DESCRIPTIVE(+25502); PUB HEALTH-ANIMATE DIS VECTORS(37058); PEST CONTRL GENL/PESTICS/HERBICS(54600); ECONOM ENTOMOL-ANIMAL PESTS(+600-12); ECONOM ENTOMOL-CHEM PHYS CONTRL(+60016); SANITARY ENTOMOLOGY(61000); INVERTB PHYSIOL-INSECTA-PHYSIOL(+64076); INVERTB PHYSIOL-INSECTA-PATHOL(+64078)

Biosystematic Codes: DIPTERA(75314); ABSTRACTS OF ENTOMOLOGY(96000)

57043334

ELECTROPHORESIS OF EXTRACTS OF HUMAN ERYTHROCYTE MEMBRANE ON PEVICON BLOCKS

BERTI G; VENTRELLI I

BOLL SOC ITAL BIOL SPER 48 (18). 1972 (RECD 1973) 499-501. Coden: BSIBA

Descriptors: RABBIT ANTI SERUM POLY VINYL CHLORIDE POLY VINYL ACETATE AGAR GEL OSMOTIC LYSIS DEOXY CHOLATE EXTRACTION

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOCHEM STUD-STEROLS,STERIODS(10067); BIOCHEM STUD-CARBOHYDR.(10068); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-MEMBRANE PHENOMENA(+10508); EXTERN EFF-PRESSURE(10606); EXTERN EFF-PHYSICAL,MECH EFFECTS(10612); MOVEMENT(12100); BLOOD/BODY FLDS-GENL STUDS,METHS(+15001); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004); IMMUNOL/IMMUNOCHEM-GEN METH(+34502); IMMUNOL/IMMUNOCHEM-IMMUNOHEMATOL(+34506)

Biosystematic Codes: LEPORIDAE(86040); HOMINIDAE(86215)

57040188

HYGIENIC EVALUATION OF WORKING CONDITIONS IN SOME BRANCHES OF THE CHEMICAL INDUSTRY WHICH OPERATE OUTDOORS

FILATOVA V S; VINOGRADOVA V K; BASHKIROVA L S

GIG TR PROF ZABOL 17 (8). 1973 8-11. Coden: GTPZA

Descriptors: AMMONIA PLANT VINYL CHLORIDE PLANT

Concept Codes: BIOCHEM STUD-GENERAL(10060); TOXICOL-ENVIRON-MNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

57034440

HUMAN EXPOSURE TO HIGH RADIANT ENVIRONMENTS

VEGHE J H

AEROSP MED 44 (10). 1973 1147-1151. Coden: AEMEA

Descriptors: FIRE FIGHTER UNIFORM PROTECTION DESIGN ASBESTOS NOMEX POLY VINYL CHLORIDE KYNOL HEART BEAT BODY TEMPERATURE

Concept Codes: GENERAL FIELD APPARATUS(01010); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL STUDIES(10502); BIOPHYS-GENERAL BIOPHYS TECH(10504); EXTERN EFF-HOT(+10618); CHORDATE BODY REGNS-EXTREMITIES(11318); PHYSIOLOGY-GENERAL STUDIES(12002); DIGESTIVE SYST-GENL STUDS,METHS(14001); CARDIOVASC SYST-PHYSIOL,BIOCHEM(+14504); INTEGUMENT SYST-PHYSIOL,BIOCHEM(18504); NERVOUS SYST-PATHOLOG-Y(20506); TEMPERATURE-GENL,METHS(+23001); TEMPERATURE-THERMOP-ATHOLOGY(23007); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

57034434

THIN LAYER CHROMATOGRAPHY IN SANITARY CHEMICAL ANALYSES OF POLYMERS

TSENOROVSKAYA V A

GIG SANIT 38 (3). 1973 80-82. Coden: GISAA

Descriptors: POLY VINYL CHLORIDE RESINS PHTHALIC-ACID ETHERS INDENE COUMARONE CARBONIC ACIDS ALDEHYDES ACIDS KETONES SENSITIVITY PHOTOMETRIC METHODS

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WATR,-SL POLLN(+37015)

57030617

TRIALS FOR STANDARDIZATION OF APHID FLIGHT SURVEY WITH YELLOW WATER PAN TRAP PART 1 COLOR PREFERENCE OF ALATE APHIDS OF CRUCIFEROUS CROPS

NAKAZAWA K

BULL HIROSHIMA PREFECT AGRIC EXP STN (32). 1972 (RECD 1973) 45-49. Coden: HNSKB

Descriptors: MYZUS-PERSICAE LIPAPHIS-ERYSIMI BREVICORYNE-BRASSICAE VINYL CHLORIDE DISCS PLASTIC PANS IRON PANS BEHAVIOR  
 Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500); BEHAVIOR BIOL-ANIMAL BEHAVIOR(\*07003); ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); ECOLOGY-ANIMAL(\*07508); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); EXTERN EFF-LIGHT,DARKNESS(\*10604); AGRONOMY-GENL,MISC,MIXED CROPS(\*52502); HORTICULT-GENL,MISC,MIXED CROPS(\*53012); ECONOM ENTOMOL-FLD,FLWR,TRCK CRP(\*60004); ECONOM ENTOMOL-CHEM PHYS CONTRL(\*60016)

Biosystematic Codes: CRUCIFERAE(25880); HOMOPTERA(75324)

57028838

EFFECT OF ORALLY ADMINISTERED PLASTICIZERS AND POLY VINYL CHLORIDE STABILIZERS IN THE RAT

NIKONOROW M; MAZUR H; PIEKACZ H

TOXICOL APPL PHARMACOL 26 (2). 1973 253-259. Coden: TXAPA

Descriptors: OCCUPATIONAL EXPOSURE DI-2 ETHYLHEXYL PHTHALATE DI-N BUTYL PHTHALATE DI-N OCTYL TIN S S BIS ISO OCTYL MERCAPTO ACETATE DI BENZYL TIN S S BIS ISO OCTYL MERCAPTO ACETATE FETAL EFFECTS LIVER KIDNEY WEIGHT INCREASES SPLEEN

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); BIOCHEM STUD-PORPHYRINS,BILE PIGM(10065); ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108); PATHOLOGY-GENERAL STUDIES(12502); PATHOLOGY-NECROSIS(12510); METABOLISM-PROTNS,-PEPTDS,AM ACDS(13012); METABOLISM-PORPHYRINS,BILE PIGMN(13013); NUTRITION-GENERAL DIET STUDIES(13214); DIGESTIVE SYST-PHYSIOL,BIOCHEM(14004); DIGESTIVE SYST-PATHOLOGY(\*14006); BLOOD/BODY FLOS-BLOOD CELL STUDS(15004); BLOOD/BODY FLOS-BLD,LYM,RES PATH(15006); BLOOD/BODY FLOS-LYMPHAT TISS,RES(15008); URIN SYST/EXT SECR-PHYSL,BIOCHEM(15504); URIN SYST/EXT SECR-PATHOLOGY(\*15506); REPRODUCT SYST-PATHOLOGY(16506); DENTAL/URAL BIOL-GENL STUD,METHS(19001); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); DEVELOPMNTL BIOL-PATHOLOGICAL(\*25503); DEVELOPMNTL BIOL-GEN MORPHGENSIS(25508); DEVELOPMNTL BIOL-EXPER TERATOL(25554); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: MURIDAE(86375)

57023498

MEAT WRAPPERS ASTHMA A NEW SYNDROME  
 SOKOL W N; AELONY V; REATT G N

JAMA J AM MED ASSOC 226 (6). 1973 639-641. Coden: JAMAA  
 Descriptors: WOMEN CIGARETTE SMOKER POLY VINYL CHLORIDE FILM  
 Concept Codes: BEHAVIOR BIOL-HUMAN BEHAVIOR(07004); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508); FOOD TECH-MEAT,MEAT BY-PRODUCTS(\*13516); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); RESPIRATORY SYST-PATHOLOGY(\*16006); PSYCHIATRY-ADDICTION(INC SMOKNG)(21004); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); TEMPERATURE-GENL,METHS(23001); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(\*34508); ALLERGY(\*35500); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); PLANT PHYSIOL-CHEM CONSTITUENTS(51522); AGRONOMY-TOBACCO CROPS(52512)

Biosystematic Codes: SOLANACEAE(26775); HOMINIDAE(86215)

57023156

CHARACTERISTICS OF THE STATE OF THERMO REGULATION IN CHRONIC VINYL CHLORIDE POISONING

STULOVA E A

GIG TR PROF ZABOL 17 (3). 1973 53-55. Coden: GTPZA  
 Descriptors: HUMAN OCCUPATIONAL EXPOSURE CIRCULATORY DISTURBANCE VASCULAR SPASM HYPOTHALAMIC BRAIN STEM IMPAIRMENT  
 Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); BIOCHEM STUD-GENERAL(10060); CHORDATE BODY REGNS-EXTREMITIES(11318); MOVEMENT(12100); PATHOLOGY-DIAGNOSTIC(12504); CARDIOVASC SYST-BLD VESS PATHOL(\*14508); MUSCLE SYST-PATHOLOGY(\*17506); NERVOUS SYST-PATHOLOGY(\*20506); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); TEMPERATURE-HYPO,HYPERTHERMIA(23006); TEMPERATURE-THERMOPATHOLOGY(\*23007); TEMPERATURE-THERMOREGULATION(\*23012); ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

57013070

A STUDY OF STABILITY OF NO 7B BLOOD PRESERVATIVE DURING ITS PROLONGED STORAGE IN POLY VINYL CHLORIDE SACS AFTER RADIATION STERILIZATION

MANUEVA G N; BOLOTNIKOVA F I

PROBL GEMATOL PERELIV KROVI 18 (5). 1973 60-63. Coden: PGPKA

Descriptors: HUMAN BACILLUS-SUBTILIS

Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(\*06504); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-CARBOHYDR(\*10068); EXTERN EFF-HOT(10618); BLOOD/BODY FLOS-GENL STUDS,METHS(15001); TEMPERATURE-GENL,METHS(23001); MICROBIOLOG APPARAT,METHS,MEDIA(32000); MED/CLIN MICROBIOL-BACTERIOLOGY(36002); DISINFECTION,DISINFECTANTS,STERIL(\*39500)

Biosystematic Codes: EUBACTERIALES(07200); HOMINIDAE(86215)

57013069

RADIO STERILIZATION OF MEDICAL PRODUCTS PART 4 EFFECTS OF GAMMA RADIATION ON PHYSICAL AND CHEMICAL PROPERTIES OF DISPOSABLE INFUSION ASSEMBLIES

OBA T; HORIBE T; KIKUCHI H; MORI J

BULL NATL INST HYG SCI (TOKYO) (90). 1972 (RECD 1973) 15-20. Coden: ESKHA

Descriptors: POLY VINYL CHLORIDE

Concept Codes: RADIATION BIOL-RADTN, ISOTOP TECH(+06504); RADIATION BIOL-RADTN EFF, PROTECT(+06506); BIOCHEM STUD-GENERAL(+10060); MINERALS(+10069); BIOPHYS-GENERAL STUDIES(+10502); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-BIOENGINEERING(+10511); ROUTES OF IMMUNIZ, INFECT, THERAP(+22100); DISINFECTION, DISINFECTANTS, STERIL(+39500)

57007411

SLOW RELEASE PLASTIC FORMULATION OF THE CABBAGE LOOPER PHEROMONE CIS-7 DODECENYL ACETATE RELEASE RATE AND BIOLOGICAL ACTIVITY

FITZGERALD T D; ST CLAIR A D; DATERMAN G E; SMITH R G

ENVIRON ENTOMOL 2 (4). 1973 607-610. Coden: EVETB

Descriptors: TRICHOPLUSIA-NI POLY VINYL CHLORIDE PLASTISOL

Concept Codes: GENERAL FIELD APPARATUS(+01010); BEHAVIOR BIOL-ANIMAL BEHAVIOR(+07003); BEHAVIOR BIOL-ANIMAL COMMUNICATN(+07006); ECOLOGY-ANIMAL(+07508); BIOCHEM STUD-GENERAL(+10060); REPRODUCT SYST-PHYSIOL, BIOCHEM(+16504); ENDOCRINE SYST-GENERAL STUDIES(+17002); ECONOM ENTOMOL-FLO, FLWR, TRCK CRP(+60004); ECONOM ENTOMOL-BIOLOGICAL CONTRL(+60014); ECONOM ENTOMOL-CHEM RHYS CONTRL(+60016); INVERTB PHYSIOL-INSECTA-PHYSIOL(+64076)

Biosystematic Codes: LEPIDOPTERA(75330)

57006242

ELECTRICAL NOISE FROM POLY VINYL CHLORIDE MEMBRANES

MICHALIDES J P L M; WALLAART R A M; DE FELICE L J

PFLUEGERS ARCH EUR J PHYSIOL 341 (2). 1973 97-104. Coden: PFLAB

Descriptors: POTASSIUM CHLORIDE MEASUREMENTS

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(+04500); BIOCHEM STUD-GENERAL(+10060); MINERALS(+10069); BIOPHYS-GENERAL STUDIES(+10502); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-MEMBRANE PHENOMENA(+10508); MOVEMENT(+12100)

57005697

MICRO SPECTROPHOTOMETRY OF MACROPHAGE LYSOSOMAL ENZYME ACTIVITY A MEASURE OF POLYMER IMPLANT TISSUE TOXICITY

SALTHOUSE T N; MATLAGA B F; O'LEARY R K

TOXICOL APPL PHARMACOL 25 (2). 1973 201-211. Coden:

TXAPA

Descriptors: RAT POLY VINYL CHLORIDE PHTHALATE ESTER HOMOLOGUES DI BUTYL TIN POLY PROPYLENE POLY ETHYLENE ACID PHOSPHATASE HISTO COMPATIBILITY

Concept Codes: MICROSCOPY-GENL, SPECL TECHNIQUES(+01052); CYTOLOGY/CYTOCHEM-ANIMAL(+02506); BIOCHEM STUD-PROTEINS, PEPTIDES, AMINO ACID(+10064); MINERALS(+10069); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-BIOENGINEERING(+10511); EXTERN EFF-COLD(+10616); ENZYMES-METHODS(+10804); ENZYMES-PHYSIOLOGICAL STUDIES(+10808); ANATOMY/HISTOL-EXPERIMENTAL(+11104); ANATOMY/HISTOL-REGEN, TRANSPLANT(+11107); BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004); BLOOD/BODY FLDS-LYMPHAT TISS, RES(+15008); TOXICOL-GENL/EXP STUDS, METHS(+22501); TEMPERATURE-GENL, METHS(+23001); TEMPERATURE-CRYOBIOLOGY(+23004); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(+34508)

Biosystematic Codes: MURIDAE(86375)

57001528

POLYMER FORMULATIONS OF MOSQUITO LARVICIDES PART 4 LARVICIDAL EFFECTIVENESS OF POLY ETHYLENE AND POLY VINYL CHLORIDE FORMULATIONS OF CHLORPYRIFOS DURING AN 18 MONTH FIELD TEST

MILLER T A; NELSON L L; YOUNG W W

MOSO NEWS 33 (2). 1973 172-175. Coden: MOSQA

Descriptors: BREEDING SEASON MARYLAND USA

Concept Codes: ECOLOGY-LIMNOLOGY(+07514); BIOCHEM STUD-GENERAL(+10060); BIOPHYS-MOLECUL PROP, MACROMOLEC(+10506); REPRODUCT SYST-PHYSIOL, BIOCHEM(+16504); TOXICOL-GENL/EXP STUDS, METHS(+22501); DEVELOPMNTL BIOL-GENL, DESCRIPTIVE(+25502); PUB HEALTH-DISINFCT, VECT CNT, PEST(+37008); PEST CONTRL GENL/PESTICS/HERBICS(+54600); ECONOM ENTOMOL-ANIMAL PESTS(+60012); ECONOM ENTOMOL-CHEM PHYS CONTRL(+60016); SANITARY ENTOMOLOGY(+61000); INVERTB PHYSIOL-INSECTA-PHYSIOL(+64076); INVERTB PHYSIOL-INSECTA-PATHOL(+64078)

Biosystematic Codes: DIPTERA(75314); ABSTRACTS OF ENTOMOLOGY(96000)

57001526

POLYMER FORMULATIONS OF MOSQUITO LARVICIDES PART 1  
EFFECTIVENESS OF POLY ETHYLENE AND POLY VINYL CHLORIDE  
FORMULATIONS OF CHLORPYRIFOS APPLIED TO ARTIFICIAL FIELD POOLS  
MILLER T A; NELSON L L; YOUNG W W; ROBERTS L W; ROBERTS D R;  
WILKINSON R N

MOSQ NEWS 33 (2). 1973 148-155. Coden: MOSQA

Descriptors: CULEX-PIPIENS-QUINQUEFASCIATUS SHADE EFFECTS  
SOIL POOL BOTTOM MARYLAND USA

Concept Codes: ECOLOGY-ANIMAL(+07508); ECOLOGY-LIMNOLOGY(07-  
514); BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL  
PROP-MACROMOLEC(10506); EXTERN EFF-LIGHT,DARKNESS(10604);  
TOXICOL-GENL/EXP STUDS,METHS(22501); DEVELOPMNTL BIOL-GENL,DE-  
SCRIPTIVE(+25502); PUB HEALTH-DISINFCT,VECT CNT,PEST(+37008);  
SOIL SCI-GENL STUDS,METHS(52801); PEST CONTRL GENL/PESTICS/HE-  
RBICS(54600); ECONOM ENTOMOL-ANIMAL PESTS(+60012); ECONOM  
ENTOMOL-CHEM PHYS CONTRL(+60016); INVERTB PHYSIOL-INSECTA-PHY-  
SIOL(+64076); INVERTB PHYSIOL-INSECTA-PATHOL(+64078)

Biosystematic Codes: DIPTERA(75314); ABSTRACTS OF  
ENTOMOLOGY(96000)

57000886

EFFECT OF INTRA AORTAL IMPLANTATION OF PLASTICS USED AS  
ARTIFICIAL HEART VALVE ON HEMATOLOGICAL CHANGES IN RABBITS

NAKAURA S; NAGAO S; KAWASHIMA K; TANAKA S; KUWAMURA T; OMDRI  
Y

BULL NATL INST HYG SCI (TOKYO) (90). 1972 (RECD 1973)  
49-53. Coden: ESKHA

Descriptors: BLOOD THROMBO ELASTOGRAPHY PROTHROMBIN TIME  
COAGULATION TEFLON POLY ACETAL POLY VINYL CHLORIDE

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); BIOCHEM  
STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO  
ACD(10064); BIOCHEM STUD-PORPHYRINS,BILE PIGM(10065);  
BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-BIOENGINEERING(+  
10511); ENZYMES-PHYSIOLOGICAL STUDIES(10808); ANATOMY/HISTOL--  
EXPERIMENTAL(+11104); MOVEMENT(12100); PATHOLOGY-THERAPY(1251-  
2); METABOLISM-PROTNS,PEPTDS,AM ACDS(13012); METABOLISM-PORPH-  
YRINS,BILE PIGMN(13013); CARDIOVASC SYST-GENL STUDS,METHS(+14-  
501); CARDIOVASC SYST-PHYSIOL,BIOCHEM(14504); BLOOD/BODY  
FLDS-GENL STUDS,METHS(15001); BLOOD/BODY FLDS-BLOOD,LYMPH  
STUD(+15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004);  
BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006)

Biosystematic Codes: LEPORIDAE(86040)

74092453

SURGICAL ATTACHMENT OF A TELEMETRY DEVICE TO THE DORSAL  
RIDGE OF A YEARLING CALIFORNIA GRAY WHALE  
ESCHRICHTIUS-ROBUSTUS

SWEENEY J C; MATTSOON J L

U S NATL MAR FISH SERV MAR FISH REV 36 (4). 1974 20-22  
Coden: MFSRA

Descriptors: POLY VINYL CHLORIDE COATED STAINLESS STEEL POLY  
PROPYLENE SUTURES POST OPERATIVE THERAPY

Concept Codes: GENERAL FIELD APPARATUS(+01010);  
ECOLOGY-OCEANOGRAPHY(+07512); ECOLOGY-AQUATIC WILDLIFE  
MGMT(+07516); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM  
STUD-GENERAL(10060); BIOPHYS-BIOENGINEERING(+10511); ANATOMY/-  
HISTOL-SURGERY(+11105); MOVEMENT(12100); PATHOLOGY-THERAPY(12-  
512); CHORDATE TAXONOMY-MAMMALIA(+62520)

Biosystematic Codes: ESCHRICHTIDAE(85820)

74090038

ANGIO SARCOMA OF THE LIVER IN A VINYL CHLORIDE WORKER

LEE F I; HARRY D S

LANCET (NORTH AM ED) 1 (7870). 1974 1316-1318 Coden:  
LANAA

Descriptors: AGED CARCINOGEN DEATH

Concept Codes: BIOCHEM STUD-GENERAL(10060); PATHOLOGY-NECRO-  
SIS(12510); DIGESTIVE SYST-PATHOLOGY(+14006); CARDIOVASC  
SYST-BLD VESS PATHOL(+14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL-  
(+18006); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL  
AGNTS-CARCINOGENS(+24007); GERONTOLOGY(24500); ENVIRON  
HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

74082502

AEROSOLS

CROSSLAND J

ENVIRONMENT (ST LOUIS) 16 (6). 1974 16-20, 25-26 Coden:  
ENVTA

Descriptors: HUMAN VINYL CHLORIDE FLUORINATED HYDRO CARBONS  
SPRAY CAN PROPELLANTS INHALATION TOXICITY CARCINOGENS

Concept Codes: BIOCHEM STUD-GENERAL(10060); RESPIRATORY  
SYST-GENL STUD,METHS(+16001); ROUTES OF IMMUNIZ,INFECT,THERAP-  
(+22100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); NEOPLSMS/NEOPL  
AGNTS-CARCINOGENS(+24007); ENVIRON HEALTH-AIR,WATR,SL POLLN(+  
37015)

Biosystematic Codes: HOMINIDAE(86215)

74072514

## ANALYSIS OF ORGANO TIN COMPOUNDS AND THEIR DEGRADATION PRODUCTS

WOGGON H; UHDE W-J; SAEUBERLICH H  
 NAHRUNG 16 (5). 1972 (RECD 1973) 592 Coden: NAHRA  
 Descriptors: ABSTRACT FUNGICIDE POLY VINYL CHLORIDE  
 STABILIZER THIN LAYER CHROMATOGRAPHY SPECTROPHOTOMETRY  
 Concept Codes: BIOCHEM METH-MINERALS(\*10059); MINERALS(1006-9);  
 BIOPHYS-GENERAL BIOPHYS TECH(10504); FOOD  
 TECH-PREP, PROCESSING, STORAGE(\*13532);  
 TOXICOL-FOOD, RESIDS, ADDIT, PRESRV(\*22502); ENVIRON HEALTH-MISC-  
 ELL STUDS(37019); PEST CONTRL GENL/PESTICS/HERBICS(\*54600)  
 Biosystematic Codes: ABSTRACTS OF MYCOLOGY(95000)

74069362

## THE OXYGEN CONSUMPTION OF MOLD FUNGI AS AN INDICATOR OF THE DEGRADATION OF SOFT POLY VINYL CHLORIDE AND ITS COMPONENTS

PANTKE M  
 MATER ORG (BERL) 8 (4). 1973 (RECD 1974) 249-270 Coden: MTOGA  
 Descriptors: TRICHODERMA-PSEUDOKONINGII SEBACINIC-ACID  
 ESTERS FATTY-ACID ESTERS METABOLISM  
 Concept Codes: BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(1-0060); BIOCHEM STUD-LIPIDS(10066); METABOLISM-GENL STUD, METAB  
 PATHW(\*13002); METABOLISM-LIPIDS(\*13006); FOOD/INDUS MICRO-BI-  
 ODEGRAD, OETER(\*39006); PLANT PHYSIOL-RESPIRATN, FERMENTN(\*5150-8)  
 Biosystematic Codes: DEUTEROMYCETES(15500)

74040467

## RESISTANCE OF POLYMERIC CABLE COVERINGS TO SUBTERRANEAN TERMITE ATTACK

BEAL R H; BULTMAN J D; SOUTHWELL C R  
 INT BIODETERIOR BULL 9 (1/2). 1973 28-34 Coden: IBOBA  
 Descriptors: TEMPERATE TROPICAL CLIMATE SURFACE SMOOTHNESS  
 THICKNESS HARDNESS MINERAL FILLERS POLY VINYL CHLORIDE  
 ETHYLENE PROPYLENE RUBBER CHLORINATED POLY ETHYLENE CHLORO  
 SULFONATED POLY ETHYLENE  
 Concept Codes: SUBTERRANEAN BIODRESEARCH(\*06400);  
 ECOLOGY-BIOCLIMATOL, BIOMETEOROL(\*07504); ECOLOGY-ANIMAL(07508)  
 ; BIOCHEM STUD-GENERAL(\*10060); BIOPHYS-GENERAL STUDIES(10502)  
 ; ECONOM ENTOMOL-GENL STUDS(\*60002); INVERTB PHYSIOL-INSECTA--  
 PHYSIOL(\*64076)  
 Biosystematic Codes: ISOPTERA(75328)

74031549

## INFLUENCE OF THE PLASTIC CONTAINER ON THE POST THAW HEMOLYSIS OF FROZEN RED CELLS

HORNBLOWER M; MERYMAN H T  
 TRANSFUSION (PHILA) 13 (5). 1973 356 Coden: TRANA  
 Descriptors: ABSTRACT POLY OLEFINS POLY VINYL CHLORIDE  
 GLYCEROL METAL SURFACE PHENOMENON  
 Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); BIOCHEM  
 STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(10066); MINERALS(100-69);  
 EXTERN EFF-TEMPERATURE(\*10614); BLOOD/BODY FLDS-GENL  
 STUDS, METHS(\*15001); BLOOD/BODY FLDS-BLOOD CELL STUDS(\*15004);  
 BLOOD/BODY FLDS-BLD, LYM, RES PATH(\*15006); TEMPERATURE-CRYOBIO-  
 LOGY(\*23004)  
 Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150)

74031534

## THE ROLE OF PLASTIC TYPE AND THE PASTEUR EFFECT IN THE STORAGE OF PLATELETS FOR TRANSFUSION AT 22 CELSIUS

MURPHY S; GARDNER F H  
 TRANSFUSION (PHILA) 13 (5). 1973 351 Coden: TRANA  
 Descriptors: ABSTRACT POLY ETHYLENE POLY VINYL CHLORIDE  
 CHROMIUM-51 SURVIVAL STUDIES GLYCOLYSIS OXYGEN TRANSPORT  
 Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); RADIATION  
 BIOL-RADTN, ISOTOP TECH(06504); BIOCHEM-GASES(\*10012); BIOCHEM  
 STUD-GENERAL(\*10060); MINERALS(10069); EXTERN EFF-TEMPERATURE-  
 (\*10614); MOVEMENT(12100); METABOLISM-GENL STUD, METAB  
 PATHW(13002); METABOLISM-ENERGY, RESPIRATION(\*13003); BLOOD/BO-  
 DY FLDS-GENL STUDS, METHS(\*15001); BLOOD/BODY FLDS-BLOOD CELL  
 STUDS(\*15004); TEMPERATURE-GENL, METHS(23001)  
 Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150)

74031533

## PLATELET ADHESION TO VARIOUS FOREIGN SURFACES

PERKINS H A; ROLFS M R; HYMAS P G  
 TRANSFUSION (PHILA) 13 (5). 1973 350-351 Coden: TRANA  
 Descriptors: ABSTRACT TRANSFUSION EXTRACORPOREAL CIRCULATION  
 POLY VINYL CHLORIDE SILICONE GLASS  
 Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(\*02506); BIOCHEM  
 STUD-GENERAL(10060); MINERALS(\*10069); BIOPHYS-GENERAL  
 STUDIES(\*10502); MOVEMENT(12100); BLOOD/BODY FLDS-GENL  
 STUDS, METHS(\*15001); BLOOD/BODY FLDS-BLOOD CELL STUDS(\*15004);  
 BLOOD/BODY FLDS-BLD, LYM, RES PATH(15006)  
 Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150)

74031507

STUDIES OF VINYL PLASTICIZER DI ETHYL HEXYL PHTHALATE

WALLIN R F; AUSMAN R K; JOSEPHSON A M

TRANSFUSION (PHILA) 13 (5). 1973 342 Coden: TRANA

Descriptors: ABSTRACT HUMAN RAT DOG POLY VINYL CHLORIDE  
BLOOD CONTAINERS LEACHING METABOLISM TOXICITY TRANSFUSION  
TISSUE DEPOSITS LIPOPHILIC SUBSTANCE ENVIRONMENTAL  
CONTAMINATION

Concept Codes: SOCIAL BIOL/HUMAN ECOLOGY(05500); CLIN  
BIOCHEM-GENL STUDIES(10006); BIOCHEM STUD-GENERAL(10060);  
BIOCHEM STUD-LIPIDS(10066); BIOPHYS-MOLECUL PROP,MACROMOLEC(1-  
0506); METABOLISM-GENL STUD,METAB PATHW(+13002); BLOOD/BODY  
FLDS-GENL STUDS,METHS(+15001); BLOOD/BODY FLDS-BLOOD,LYMPH  
STUD(+15002); TOXICOL-GENL/EXP STUDS,METHS(+22501)

Biosystematic Codes: CANIDAE(85765); HOMINIDAE(86215);  
MURIDAE(86375)

74021432

THE INFLUENCE OF POLY VINYL CHLORIDE TUNNELS AND VENTILATION  
ON STRAWBERRY CULTURE/

TESI R; GRAIFENBERG A; NOTARTOMMASO M

ACTA HORTIC 27. 1973 240-248 Coden: AHORA

Concept Codes: GENERAL FIELD METHODS(+01008);  
HORTICULT-SMALL FRUITS(+53006)

Biosystematic Codes: ROSACEAE(26675)

56052357

THE SAFETY TESTING OF MEDICAL PLASTICS PART 2 AN ASSESSMENT  
OF LYSOSOMAL CHANGES AS AN INDEX OF TOXICITY IN CELL CULTURES

GRASSO P; GAYDON J; HENDY R J

FOOD COSMET TOXICOL 11 (2). 1973 255-263. Coden: FCTXA

Descriptors: RAT KIDNEY CELLS NEUTRAL RED STAINING DI BUTYL  
TIN DI ACETATE ACID PHOSPHATASE CELL NECROSIS POLY VINYL  
CHLORIDE

Concept Codes: MICROSCOPY-CYTOLOG,CYTOCHEM TECH(01054);  
CYTOLOGY/CYTOCHEM-ANIMAL(+02506); BIOCHEM METH-GENERAL(10050);  
BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,A-  
MIND ACD(10064); BIOCHEM STUD-CARBOHYDR.(10068); ENZYMES-PHYS-  
IOLOGICAL STUDIES(+10808); PATHOLOGY-NECROSIS(12510); BLOOD/B-  
ODY FLDS-BLOOD,LYMPH STUD(15002); URIN SYST/EXT  
SECR-PATHOLOGY(+15506); TOXICOL-GENL/EXP STUDS,METHS(+22501);  
PEDIATRICS(25000); TISS CULTURE-APPARAT,METHS,MEDIA(32500)

Biosystematic Codes: MURIDAE(86375)

56051635

BIOLOGICAL EFFECTS AND PHYSICAL PROPERTIES IN THE MARINE  
ENVIRONMENT OF ALIPHATIC CHLORINATED BYPRODUCTS FROM VINYL  
CHLORIDE PRODUCTION

JERNELOV A; ROSENBERG R; JENSEN S

WATER RES 6 (10). 1972 1181-1191. Coden: WATRA

Descriptors: ALLIUM-CEPA COD SHRIMP POLYCHAETE  
OPHRYOTROCHA-LABRONICA BARNACLE BALANUS-BALANOIDES TOXICITY

Concept Codes: CYTOLOGY/CYTOCHEM-PLANT(02504); ECOLOGY-OCEA-  
NOGRAPHY(+07512); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517);  
BIOCHEM STUD-GENERAL(10060); MOVEMENT(12100); PATHOLOGY-GENER-  
AL STUDIES(12502); PATHOLOGY-NECROSIS(12510); METABOLISM-GENL  
STUD,METAB PATHW(+13002); DIGESTIVE SYST-PHYSIOL,BIOCHEM(1400-  
4); URIN SYST/EXT SECR-PHYSL,BIOCHEM(15504); MUSCLE  
SYST-PHYSIOL,BIOCHEM(17504); MUSCLE SYST-PATHOLOGY(17506);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); DEVELOPMNTL BIOL-GEN  
MORPHGENSIS(25508); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015);  
PHYTOPATHOL-NONPARASITIC DISEASE(54512); INVERTB PHYSIOL-ANNE-  
LIDA(+64030); INVERTB PHYSIOL-CRUSTACEA(+64054)

Biosystematic Codes: LILIACEAE(25345); POLYCHAETA(65500);  
CIRRIPIEDIA(75108); MALACOSTRACA(75112); OSTEICHTHYES(85206)

56034109

DICHLORVOS CONCENTRATIONS IN THE AIR OF HOUSES ARISING FROM  
THE USE OF DICHLORVOS POLY VINYL CHLORIDE STRIPS

ELGAR K E; STEER B D

PESTIC SCI 3 (5). 1972 (RECD 1973) 591-600. Coden: PSSCB

Descriptors: UNITED-KINGDOM AUSTRALIA FRANCE

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(1-  
0050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-BIOENGINEERING(10-  
511); EXTERN EFF-HOT(10618); ENZYMES-METHODS(10804);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WATR,-  
SL POLLN(+37015); PEST CONTRL GENL/PESTICS/HERBICS(+54600);  
ECONOM ENTOMOL-CHEM PHYS CONTRL(60016)

Biosystematic Codes: ABSTRACTS OF ENTOMOLOGY(96000)

56029005

EXPERIMENTAL STUDIES ON THE TOXICITY OF DI METHYL TIN DI  
CHLORIDE THROUGH DIGESTIVE TRACT

HASHIZUME M

J TOKYO MED COLL 29 (1). 1971 (RECD 1972) 11-41. Coden:

TIDZA

Descriptors: RABBIT DI BUTYL TIN DI CHLORIDE POLY VINYL  
CHLORIDE PLASTICS STABILIZER POLAROGRAPHY

Concept Codes: BIOCHEM METH-MINERALS(10059); BIOCHEM  
STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS  
TECH(10504); PATHOLOGY-COMPARATIVE(12503); MINERALS(+13010);  
DIGESTIVE SYST-GENL STUDS,METHS(14001); DIGESTIVE SYST-PHYSIO-  
L,BIOCHEM(+14004); ROUTES OF IMMUNIZ,INFECT,THERAP(22100);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); TOXICOL-VETERINARY(22508)

Biosystematic Codes: LEPORIDAE(86040)

56022716

GAS CHROMATOGRAPHIC ANALYSIS OF VOLATILE SUBSTANCES EMITTED INTO THE AIR BY CONSTRUCTION POLYMERS WITH A POLY VINYL CHLORIDE BASE/

FILIPPOV A P; KOMLEV V K; MAL'TSEV V V

GIG SANIT 37 (6). 1972 67-68. Coden: GISAA

Concept Codes: BIOCHEM METH-GENERAL(\*10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(\*10504); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); PUB HEALTH-LAB METHS(\*37-006); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

56017391

THE SAFETY TESTING OF MEDICAL PLASTICS PART 1 AN ASSESSMENT OF METHODS

PELLING D; SHARRATT M; HARDY J

FOOD COSMET TOXICOL 11 (1). 1973 89-73. Coden: FCTXA

Descriptors: RAT RABBIT MOUSE POLY VINYL CHLORIDE SAMPLES

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-BIOENGIN-NEERING(\*10511); ANATOMY/HISTOL-EXPERIMENTAL(\*11104); PATHOLOGY-GENERAL STUDIES(\*12502); PATHOLOGY-THERAPY(12512); MUSCLE SYST-GENL STUDS,METHS(17501); MUSCLE SYST-PATHOLOGY(\*17506); INTEGUMENT SYST-GENL STUDS,METHS(18501); TOXICOL-GENL/EXP STUDS,METHS(\*22501); TISS CULTURE-APPARAT,METHS,MEDIA(32500)

Biosystematic Codes: LEPORIDAE(86040); MURIDAE(86375)

56006305

PRESERVATION OF VIABLE PLATELETS BY FREEZING EFFECT OF PLASTIC CONTAINERS

BYUNG K K; BALDINI M G

PROC SOC EXP BIOL MED 142 (1). 1973 345-350. Coden: PSEBA

Descriptors: HUMAN PLASMA SPECTROPHOTOMETER DI METHYL SULFOXIDE CRYOPROTECTANT SODIUM CHROMATE POLY VINYL CHLORIDE POLY OLEFIN IN-VITRO

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); RADIATION BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); BLOOD/BODY FLDS-GENL STUDS,METHS(\*15001); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(\*15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(\*15004); TEMPERATURE-CRYOBIOLOGY(\*23004); IN VITRO STUDS-CELLULR,SUBCELL(\*32600)

Biosystematic Codes: HOMINIDAE(86215)

56005603

DICHLORVOS RESIDUES IN FOOD ARISING FROM THE DOMESTIC USE OF DICHLORVOS POLY VINYL CHLORIDE STRIPS

ELGAR K E; MATTHEWS B L; BOSIO P

PESTIC SCI 3 (5). 1972 (1970-1973) 601-607

Descriptors: UNITED-KINGDOM FRANCE

Concept Codes: BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); EXTERN EFF-HOT(10618); MOVEMENT(12100); FOOD TECH-GENL STUDS,METHS(\*13502); FOOD TECH-EVALNS PHYS,CHEM PROPS(\*13530); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); TOXICOL-FOOD,RESIDS-,ADDIT,PRESRV(\*22502); TEMPERATURE-GENL,METHS(23001); PEST CONTRL GENL/PESTICS/HERBICS(\*54600); ECONOM ENTOMOL-CHEM PHYS CONTRL(60016)

Biosystematic Codes: ABSTRACTS OF ENTOMOLOGY(96000)

56002236

INFLUENCE OF PACKAGING MATERIALS ON QUALITY OF FRESH POULTRY DEBEVERE J M; VOETS J P

BR POULT SCI 14 (1). 1973 17-22. Coden: BPOSA

Descriptors: BACTERIA POLY VINYL CHLORIDE FILM OXYGEN PERMEABILITY AMMONIA FORMATION

Concept Codes: BIOCHEM-GASES(\*10012); BIOCHEM STUD-GENERAL(-10060); EXTERN EFF-COLD(10616); FOOD TECH-POULTRY,EGGS(\*13520); FOOD TECH-EVALNS PHYS,CHEM PROPS(\*13530); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532); TEMPERATURE-GENL,METHS(23001); BACTERIA-PHYSIOLOGY,BIOCHEMISTRY(\*31000); FOOD/INDUS MICRO-FD-/BEV SP CNTAM(\*39002)

Biosystematic Codes: BACTERIA-UNSPECIFIED(06000); GALLIFORM-ES(85536)

55060275

MICROBIOLOGICAL EFFECT OF UNDERGROUND PIPING ON POLY VINYL CHLORIDE INSULATION

ZVYAGINTSEV D G; BORISOV B I; BOBKOVA T S

VESTN MOSK UNIV SER VI BIOL POCHVOVED 26 (5). 1971 (RECD 1972) 77-85. Coden: VMUBA

Descriptors: FUNGI

Concept Codes: BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD,METAB PATHW(\*13002); FOOD/INDUS MICRO-BIODEGRAD,DETER(\*3-9006); SOIL MICROBIOLOGY(\*40000); PLANT PHYSIOL-METABOLISM(\*5-1519)

Biosystematic Codes: FUNGI-UNSPECIFIED(15000)

55043627

## EFFECTS OF CHLORINATED ALIPHATIC HYDRO CARBONS ON LARVAL AND JUVENILE BALANUS-BALANOIDES

ROSENBERG R

ENVIRON POLLUT 3 (4). 1972 313-318. Coden: ENVPA

Descriptors: VINYL CHLORIDE TOXICITY

Concept Codes: BEHAVIOR BIOL-ANIMAL BEHAVIOR(07003);  
 ECOLOGY-WATER RESRCH.FISHERY BIOL(07517); BIOCHEM STUD-GENERAL-  
 (+10060); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,INDUSTR(+22506)  
 ; DEVELOPMNTL BIOL-EXPERIMENTAL(+25504); ENVIRON HEALTH-AIR,W-  
 AIR,SL POLLN(+37015); INVERTB PHYSIOL-CRUSTACEA(+64054)

Biosystematic Codes: CIRRIPEIDIA(75108)

55036909

## PROTECTIVE PACKAGING MATERIALS FOR FRESH BEEF SHIPMENTS

REA R H; SMITH G C; CARPENTER Z L; HOKE K E

J FOOD SCI 37 (5). 1972 739-742. Coden: JFDSA

Descriptors: BACTERIA MOISTURE POLY ETHYLENE POLY VINYL CHLORIDE

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
 STUD-LIPIDS(10066); EXTERN EFF-TEMPERATURE(+10614); EXTERN  
 EFF-COLD(+10616); FOOD TECH-MEAT,MEAT BY-PRODUCTS(+13516);  
 FOOD TECH-EVALNS PHYS,CHEM PROPS(+13530); FOOD  
 TECH-PREP,PROCESSNG,STORAGE(+13532);  
 BONE,JNTS,FASC,CONN/ADIP-PHY,BCH(18004);  
 TEMPERATURE-GENL,METHS(+23001);  
 BACTERIA-PHYSIOLOGY,BIOCHEMISTRY(31000); FOOD/INDUS MICRO-FD/-  
 BEV SP CNTAM(+39002)

Biosystematic Codes: BACTERIA-UNSPECIFIED(06000); BOVIDAE(8-5715)

55034776

## PATHOGENESIS OF CHANGES DEVELOPING DUE TO LONG-TERM EXPOSURE TO THE EFFECT OF VINYL CHLORIDE

BASALAEV A V; VAZIN A N; KOCHETKOV A G

GIG TR PROF ZABOL 16 (2). 1972 24-27. Coden: GTPZA

Descriptors: RABBIT RAT BONE DYSTROPHY NEURO HUMORAL NEURO VASCULAR DISORDERS

Concept Codes: PHOTOGRAPHY-METHS,MATLS,APPARAT(01012);  
 RADIATION BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM-GASES(10012);  
 BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,A-  
 MINO ACD(10064); BIOPHYS-GENERAL BIOPHYS TECH(10504);  
 ANATOMY/HISTOL-RADIOLOGIC(11106);  
 ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108);  
 PATHOLOGY-DIAGNOSTIC(12504); METABOLISM-PROTNS,PEPTDS,AM ACDS-  
 (13012); CARDIOVASC SYST-HEART PATHOLOGY(14506); CARDIOVASC  
 SYST-BLD VESS PATHOL(+14508); BLOOD/BODY FLDS-BLOOD,LYMPH  
 STUD(15002); RESPIRATORY SYST-GENL STUD,METHS(16001);  
 ENDOCRINE SYST-ADRENALS(17004); ENDOCRINE SYST-NEUROENDOCRINO-  
 LOG(17020); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006); NERVOUS  
 SYST-PATHOLOGY(+20506); ROUTES OF IMMUNITZ INFECT THERAP(+22100)

; TOXICOL-GENL/EXP STUDS,METHS(+22501); TOXICOL-ENVIRONMNTL,1-  
 INDUSTR(+22506); PUB HEALTH-ADMINISTR,STATISTICS(37010)

Biosystematic Codes: LEPORIDAE(86040); MURIDAE(86375)

55029274

## AN EVALUATION OF LABORATORY ENSILING TECHNIQUES

WILSON R F; WILKINS R J

J SCI FOOD AGRIC 23 (3). 1972 377-385. Coden: JSFAA

Descriptors: GRASSES LEGUME POLY VINYL CHLORIDE

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
 STUD-LIPIDS(10066); ANIMAL PRODUCTN-FEEDS,FEEDING(+26504);  
 AGRONMY-FORAGE CROPS,FODDER(+52506)

Biosystematic Codes: GRAMINEAE(25305); LEGUMINOSAE(26260)

55015625

## MUCO PYOMETRA AND CORPUS CARCINOMA

JANISCH H; MICHALICA W; PICH A E; WEGHAUPT K

STRAHLENTHERAPIE 143 (5). 1972 511-515. Coden: STRAA

Descriptors: HUMAN POLY VINYL CHLORIDE CATHETER RADIO THERAPY

Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(+06504);  
 RADIATION BIOL-RADTN EFF,PROTECT(+06506); BIOCHEM STUD-GENERA-  
 L(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); PATHOLOGY-INFL-  
 AMMATN,INFLAM DIS(12508); PATHOLOGY-THERAPY(12512); BLOOD/BODY  
 FLDS-OTHR BODY FLDS(15010); REPRODUCT SYST-PATHOLOGY(+16506);  
 NEOPLSMS/NEOPL AGNTS-THERAP,AGNT(+24008)

Biosystematic Codes: HOMINIDAE(86215)

55013835

## EFFECTS OF PLASTICIZERS AND PLASTIC COATINGS ON FUNGAL ATTACK OF COTTON YARN

STEWART C S; WALSH J H

J APPL BACTERIOL 35 (2). 1972 289-296. Coden: JABAA

Descriptors: POLY VINYL CHLORIDE GROWTH INHIBITION

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(1-  
 0060); BIOCHEM STUD-CARBOHYDR.(10068); METABOLISM-GENL  
 STUD,METAB PATHW(+13002); METABOLISM-CARBOHYDRATES(13004);  
 FOOD/INDUS MICRO-BIODEGRAD,DETER(+39006); PLANT PHYSIOL-GROWTH-  
 H,DIFFERENTIAT(+51510); PLANT PHYSIOL-METABOLISM(+51519);  
 AGRONOMY-FIBER CROPS(52508)

Biosystematic Codes: FUNGI-UNSPECIFIED(15000); MALVACEAE(26-330)

55011452

## THE CORRELATION OF CLINICAL AND ENVIRONMENTAL MEASUREMENTS FOR WORKERS EXPOSED TO VINYL CHLORIDE

KRAMER C G; MUTCHLER J E

AM IND HYG ASSOC J 33 (1). 1972 19-30. Coden: AIHAA

Descriptors: HUMAN STATISTICALLY SIGNIFICANT EFFECTS

Concept Codes: MATHEMATIC BIOL/STATISTIC METH(04500);  
 BIOCHEM STUD-GENERAL(10060); PATHOLOGY-GENERAL STUDIES(+12502);  
 METABOLISM-GENL STUD,METAB PATHW(+13002); TOXICOL-ENVIRONMNTL-  
 TL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

55011447

## OCCUPATIONAL ACRO OSTEOLYSIS

MARKOWITZ S S; MC DONALD C J; FETHERE W; KERZNER M S

ARCH DERMATOL 106 (2). 1972 219-223. Coden: ARDEA

Descriptors: HUMAN POLY VINYL CHLORIDE VINYL CHLORIDE  
 PLASTICS INDUSTRY

Concept Codes: BIOCHEM STUD-GENERAL(+10060); CHORDATE BODY  
 REGNS-EXTREMITIES(+11318); PATHOLOGY-COMPARATIVE(+12503); BONE-  
 ,JNTS,FASC,CONN/ADIP-PATHOL(+18006); INTEGUMENT SYST-PATHOLOG-  
 Y(+18506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON  
 HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

55011109

## PLASTICS WASTE AND THE ENVIRONMENT

STAUDINGER J J P

INT J ENVIRON STUD 3 (1). 1972 65-67. Coden: IJEVA

Descriptors: POLLUTION POLY VINYL CHLORIDE INCINERATION

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504);  
 ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM STUD-GENERAL-  
 (10060); TOXICOL-ENVIRONMNTL,INDUSTR(22506); TEMPERATURE-GENL-  
 ,METHS(23001); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); SOIL  
 SCI-GENL STUDS,METHS(+52801)

55008436

## CUTANEOUS LESIONS IN ACRO OSTEOLYSIS

MEYERSON L B; MEIER G C

ARCH DERMATOL 106 (2). 1972 224-227. Coden: ARDEA

Descriptors: HUMAN VINYL CHLORIDE PROCESSING

Concept Codes: BIOCHEM STUD-GENERAL(10060); CHORDATE BODY  
 REGNS-EXTREMITIES(+11318); PATHOLOGY-COMPARATIVE(+12503); BON-  
 E,JNTS,FASC,CONN/ADIP-PATHOL(+18006); INTEGUMENT SYST-PATHOLOG-  
 Y(+18506); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON  
 HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

55005236

## ABSORPTION SPECTRA OF IRRADIATED FILMS OF POLY VINYL CHLORIDE COATED WITH PERYLENE

UEDA H; YASHIRO D

RADIAT RES 50 (2). 1972 276-283. Coden: RAREA

Descriptors: DOSIMETER

Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(+06504);  
 RADIATION BIOL-RADTN EFF,PROTECT(06506); BIOCHEM STUD-GENERAL-  
 (10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(+10506)

55005068

## THE LEACHING OF TOXIC STABILIZERS FROM UNPLASTICIZED POLY VINYL CHLORIDE WATER PIPE PART 2 A SURVEY OF LEAD LEVELS IN UNPLASTICIZED POLY VINYL CHLORIDE DISTRIBUTION SYSTEMS

PACKHAM R F

WATER TREAT EXAM 20 (3). 1971 144-151. Coden: WATB

Descriptors: UNITED-KINGDOM

Concept Codes: BIOCHEM STUD-GENERAL(10060); MINERALS(+10069);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WAT-  
 R,SL POLLN(+37015)

55002166

## FRUIT SET OF SWEET PEPPER CAPSICUM-ANNUUM UNDER PLASTIC COVERS

RYLSKI I; KEMPLER H

HORTSCIENCE 7 (4). 1972 422-424. Coden: HJHSA

Descriptors: BLACK BITUMEN POLY ETHYLENE POLY VINYL CHLORIDE  
 SOIL MULCHES TEMPERATURE MOISTURE

Concept Codes: BIOCHEM-PHYSIOLOGL WATER STUD(10011); BIOCHEM  
 STUD-GENERAL(10060); TEMPERATURE-GENL,METHS(23001); PLANT  
 PHYSIOL-WATER RELATIONS(+51502); PLANT PHYSIOL-TEMPERATURE(+5-  
 1503); PLANT PHYSIOL-GROWTH,DIFFERENTIAT(+51510); PLANT  
 PHYSIOL-REPRODUCTION(+51512); SOIL SCI-FERTILITY,APPLIED  
 STUDS(+52807); HORTICULT-VEGETABLES(+53008)

Biosystematic Codes: SOLANACEAE(26775)

73077656

PATHO MORPHOLOGY OF SOME INTERNAL ORGANS IN PNEUMOCONIOSIS  
INDUCED EXPERIMENTALLY WITH POLY VINYL CHLORIDE DUST

PGPOW J

FOLIA HISTOCHEM CYTOCHEM 10 (2). 1973 204 Coden: FHCYA  
Descriptors: ABSTRACT RAT ESOPHAGUS CARCINOMA GASTRIC ULCER  
Concept Codes: BIOCHEM STUD-GENERAL(10060); PATHOLOGY-INFLA-  
MMATN,INFLAM DIS(12508); DIGESTIVE SYST-PATHOLOGY(+14006);  
RESPIRATORY SYST-PATHOLOGY(+16006); TOXICOL-ENVIRONMNTL,INDUS-  
TR(+22506); NEOPLSMS/NEOPL AGNTS-CARCINOGENS(+24007); ENVIRON  
HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: MURIDAE(86375)

73035711

MIGRATION OF A PHTHALATE ESTER PLASTICIZER FROM POLY VINYL  
CHLORIDE BLOOD BAGS INTO STORED HUMAN BLOOD AND ITS  
LOCALIZATION IN HUMAN TISSUES

JAEGER R J; RUBIN R J

N ENGL J MED 287 (22). 1972 1114-1118 Coden: NEJMA

Descriptors: DOG

Concept Codes: BIOCHEM STUD-GENERAL(+10060); BLOOD/BODY  
FLOS-BLOOD,LYMPH STUD(+15002); TOXICOL-GENL/EXP STUDS,METHS(+  
22501)

Biosystematic Codes: CANIDAE(85765); HOMINIDAE(86215)

73032810

POLY VINYL CHLORIDE PIPE CUTS COLORADO DISTRICTS FLOW COST  
BYRNE B

WATER SEWAGE WORKS 119 (12). 1972 51 Coden: WSWDA

Descriptors: USA SEWAGE GROUND WATER INFILTRATION

Concept Codes: ECOLOGY-LIMNOLOGY(07514); ECOLOGY-WATR  
RESRCH,FISHERY BIOL(07517); BIOCHEM STUD-GENERAL(10060);  
ENVIRON HEALTH-SEWG DISP,SANITAR(+37014); ENVIRON HEALTH-AIR,-  
WATR,SL POLLN(+37015)

73016977

TOXICOLOGY OF SANTICIZER 334F

FANCHER O E; KENNEDY G L JR; PLANK J B; LINDBERG D C; HUNT W  
H; CALANDRA J C

TOXICOL APPL PHARMACOL 22 (2). 1972 304 Coden: TXAPA

Descriptors: ABSTRACT RAT DOG REPRODUCTION POLY VINYL  
CHLORIDE PLASTICIZER FOOD CONTACT

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
STUD-LIPIDS(10066); PATHOLOGY-GENERAL STUDIES(+12502);  
NUTRITION-GENERAL DIET STUDIES(+13214); FOOD TECH-SYNTH,SUPPL-  
ENRICH FDS(+13534); REPRODUCT SYST-PATHOLOGY(+16506);  
DENTAL/ORAL BIOL-GENL STUD,METHS(19001); ROUTES OF  
IMMUNIZ,INFECT,THERAP(22100);

TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502)

Biosystematic Codes: CANIDAE(85765); MURIDAE(86375)

73015813

HYGIENIC EVALUATION OF BETA AMINO CROTONIC-ACID ESTERS AS  
STABILIZERS FOR HARD POLY VINYL CHLORIDE/

MAZUR H

ROCZ PANSTW ZAKL HIG 23 (3). 1972 263-269 Coden: RPZHA

Concept Codes: BIOCHEM METH-GENERAL(10050); BIOCHEM  
STUD-GENERAL(+10060); BIOPHYS-GENERAL BIOPHYS TECH(10504);  
MOVEMENT(12100)

73001987

CHANGES OF THE LANDSCAPE CAUSED BY INDUSTRIAL SMOKE ACIDS

BOHNE H

NOVAKOVA, ELISKA, JAN VANEK AND JAN STEPAN (EDITED BY)  
BIOINDICATORY DETERIORIZACE KRAJINY. BIOINDICATORS OF  
LANDSCAPE DETERIORATION. SBORNIK Z MEZINARODNI KONFERENCE.  
(SYMPOSIUM FROM AN INTERNATIONAL CONFERENCE.) 133 P. ILLUS.  
STATE INSTITUTE FOR LANDSCAPE PLANNING, INSTITUTE FOR REGIONAL  
ECOLOGY OF THE CZECH ACADEMY OF SCIENCES: CHOTOBUZ, PRUHONICE  
8EI PRAG, CZECHOSLOVAKIA. 1971 14-17 Coden: O2553

Descriptors: FOREST PLANTS FRUIT TREES GARDEN PLANTS SULFUR  
DI OXIDE FLUORINE CHLORIDE POLY VINYL CHLORIDE

Concept Codes: ECOLOGY-PLANT(+07506); BIOCHEM-GASES(10012);  
BIOCHEM STUD-GENERAL(10060); MINERALS(10069); ENVIRON  
HEALTH-AIR,WATR,SL POLLN(+37015); HORTICULT-TROP FRUIT,NUT,PL-  
ANTAT(+53004); HORTICULT-FLOWERS,ORNAMENTALS(+53010); FORESTRY  
AND FOREST PRODUCTS(+53500); PHYTOPATHOL-NONPARASITIC  
DISEASE(+54512)

Biosystematic Codes: PLANTAE-UNSPECIFIED(11000)

54069812

THE LEACHING OF TOXIC STABILIZERS FROM UNPLASTICIZED POLY  
VINYL CHLORIDE WATER PIPE PART 3 THE MEASUREMENT OF  
EXTRACTABLE LEAD IN UNPLASTICIZED POLY VINYL CHLORIDE PIPES/

PACKHAM R F

WATER TREAT EXAM 20 (3). 1971 152-164. Coden: WATEB

Concept Codes: BIOCHEM METH-MINERALS(10059); BIOCHEM  
STUD-GENERAL(10060); MINERALS(+10069); TOXICOL-GENL/EXP  
STUDS,METHS(+22501)

Biosystematic Codes: MURIDAE(86375)

54058049

## APPLICATION CONDITIONS OF SOFTENED POLY VINYL CHLORIDE IN THE FOOD INDUSTRY

SCHULER M T

CHIMIA 26 (5). 1972 265-268. Coden: CHIMA

Descriptors: TOXICOLOGY

Concept Codes: BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(+10060); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); PATHOLOGY-GENERAL STUDIES(+12502); FOOD TECH-EVALNS PHYS,CHEM PROPS(13530); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); PUB HEALTH-ADMINISTR,STATISTICS(37010); ENVIRON HEALTH-MISCELL STUDS(+37019)

54028416

## HYGIENIC CONDITIONS OF WORK AND OCCUPATIONAL DISEASE INCIDENCE AMONG WORKERS ENGAGED IN THE PRODUCTION OF SUSPENSION POLY VINYL CHLORIDE

FILATOVA V S; ANTONYUZHENKO V A

GIG TR PROF ZABOL 15 (4). 1971 32-34. Coden: GTPZA

Descriptors: HUMAN

Concept Codes: PATHOLOGY-GENERAL STUDIES(+12502); PATHOLOGY-THERAPY(+12512); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

Biosystematic Codes: HOMINIDAE(86215)

54040530

## RETENTION OF LIPOPHILIC COMPOUNDS ON LABORATORY TUBING

PEKAS J C

TOXICOL APPL PHARMACOL 21 (4). 1972 586-588. Coden:

TXAPA

Descriptors: PESTICIDAL CARBAMATES POLY VINYL CHLORIDE INTESTINAL PERFUSION APPARATUS LATEX LIPID PARTITION COEFFICIENT

Concept Codes: GENERAL LABORATORY METHODS(+01004); RADIATION BIOL-RADTN,ISOTOP TECH(06504); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(+10066); DIGESTIVE SYST-GENL STUDS,METHS(+14001); TOXICOL-GENL/EXP STUDS,METHS(+22501); PEST CONTRL GENL/PESTICS/HERBICS(+54600)

Biosystematic Codes: ABSTRACTS OF ENTOMOLOGY(96000)

54022912

## MIGRATION OF TIN STABILIZERS FROM POLY VINYL CHLORIDE BOTTLES INTO BEER/

KOCK J; FIGGE K

Z LEBENSM-UNTERS -FORSCH 147 (1). 1971 8-10. Coden: ZLUF4

Concept Codes: BIOCHEM STUD-GENERAL(+10060); MINERALS(+10069); FOOD TECH-MALTS,BREWS,FERMENTATN(+13512); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); FOOD TECH-SYNTH,SUPPL,ENRICH FDS(+13534); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); PUB HEALTH-ADMINISTR,STATISTICS(37010); FOOD/INDUS MICRO-FD/B-EV FERMENT(+39003)

54034707

## THE BEHAVIOR OF CARBON-14 LABELED DI-N OCTYL TIN DI THIO GLYCOLIC-ACID 2 ETHYLHEXYL ESTER AND DI-N OCTYL TIN CHLORIDE AND THAT OF SULFUR-35 LABELED THIO GLYCOLIC-ACID 2 ETHYLHEXYL ESTER IN THE RAT

SEIDLER H; HAERTIC M; WOGGON H

Z GESAMTE HYG GRENZGEB 17 (8). 1971 603-608. Coden:

ZHYGA

Descriptors: POLY VINYL CHLORIDE PLASTIC STABILIZER FOOD PACKAGING

Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(06504); CLIN BIOCHEM-GENL STUDIES(10006); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); METABOLISM-GENL STUD,METAB PATHW(+13002); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); DIGESTIVE SYST-GENL STUDS,METHS(+14001); CARDIOVASC SYST-GENL STUDS,METHS(14501); BLOOD/BODY FLDS-GENL STUDS,METHS(15001); URIN SYST/EXT SECR-GENL STUD,METH(15501); ENDOCRINE SYST-ADRENALS(17004); ENDOCRINE SYST-PITUITARY(17014); ENDOCRINE SYST-THYMUS(17016); MUSCLE SYST-GENL STUDS,METHS(17501); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); NERVOUS SYST-GENL STUDS,METHS(20501); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(22501); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); ENVIRON HEALTH-MISCELL STUDS(+37019)

54011329

## FURTHER INVESTIGATIONS ON THE FRACTIONATION AND PURIFICATION OF THE TOXIC COMPONENTS FROM THE VENOM OF THE BULGARIAN VIPER VIPERA-AMMODYTES-AMMODYTES

ALEKSIEV B; SHIPOLINI R

HOPPE-SEYLER'S Z PHYSIOL CHEM 352 (9). 1971 1183-1188. Coden: HSZPA

Descriptors: GEL FILTRATION CHROMATOGRAPHY ELECTROPHORESIS AMINO-ACID COMPOSITION POLY VINYL CHLORIDE

Concept Codes: BIOCHEM METH-PROTNS,PEPTDS,AM AC(+10054); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOPHYS-GENERAL BIOPHYS TECH(+10504); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); MOVEMENT(12100); DENTAL/ORAL BIOL-PHYSIOL,BIOCHEM(+19004); TOXICOL-GENL/EXP STUDS,METHS(+22501)

Biosystematic Codes: SERPENTES(85410)

54004133

A POLY VINYL CHLORIDE PEEL TECHNIQUE FOR IRON SULFIDE PETRIFACTIONS

JENNINGS J R

J PALEONTOL 46 (1). 1972 70-71. Coden: JPALA

Descriptors: COAL BALL FOSSILS

Concept Codes: GENERAL LABORATORY METHODS(+01004); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); PALEOBOTANY(+50000); PALEOBIOLOGY(+64500)

Biosystematic Codes: PLANTAE-UNSPECIFIED(11000); PALEOBIOLOGY(27000); PALEOBOTANY(29000)

53053876

TERATOGENICITY OF PHTHALATE ESTERS IN RATS

SINGH A R; LAWRENCE W H; AUTIAN J

J PHARM SCI 61 (1). 1972 51-55. Coden: JPMSA

Descriptors: POLY VINYL CHLORIDE PLASTICIZER CORPORA LUTEA SKELETAL DEFECTS

Concept Codes: BIOCHEM STUD-GENERAL(10060); MINERALS(10069); CHORDATE BODY REGNS-ABDOMEN(11314); CHORDATE BODY REGNS-EXTREMITIES(11318); REPRODUCT SYST-PHYSIOL,BIOCHEM(+165-04); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006); SENSE ORGANS-PATHOLOGY(20006); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+22501); DEVELOPMNTL BIOL-EXPER TERATOL(+25554); PLANT PHYSIOL-CHEM CONSTITUENTS(51522); AGRONOMY-FIBER CROPS(52508)

Biosystematic Codes: MALVACEAE(26330); MURIDAE(86375)

53028917

RESIDUES OF DICHLORVOS DIAZINON AND DIMETILAN IN MILK OF COWS FED POLY VINYL CHLORIDE INSECTICIDE FEED ADDITIVES

LLOYD J E; MATTHYSSE J G

J ECON ENTOMOL 64 (4). 1971 821-822. Coden: JEENA

Descriptors: MUSCA-AUTUMNALIS ANTI PARASIT-DRUG

Concept Codes: ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOCHEM STUD-GENERAL(10060); FOOD TECH-DAIRY PRODUCTS(+13518); DENTAL/ORAL BIOL-GENL STUD,METHS(19001); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); TOXICOL-PHARMACOLOGICAL(+22504); ANIMAL PRODUCTN-FEEDS,FEEDING(+26504); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015); VETERINARY SCI-PATHOLOGY(+38004); CHEMOTHERAPY-ANTIPARASITIC AGNTS(+38510); PEST CONTRL GENL/PESTICS/HERBICS(+54600); ECONOM ENTOMOL-CHEM PHYS CONTRL(+60016); PARASITOLOGY-VETERINARY(+60506)

Biosystematic Codes: DIPTERA(75314); BOVIDAE(85715); ABSTRACTS OF ENTOMOLOGY(96000)

53025161

A RAPID TEST FOR BIO DEGRADABILITY OF POLY VINYL CHLORIDE FILM BY PSEUDOMONADS

SHARPE A N; WOODROW M N

J APPL BACTERIOL 34 (2). 1971 485-489. Coden: JABAA

Descriptors: AMMONIA

Concept Codes: BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD,METAB PATHW(+13002); METABOLISM-ENERGY,RESPIRATION(+1300-3); BACTERIA-PHYSIOLOGY,BIOCHEMISTRY(+31000); FOOD/INDUS MICRO-BIODEGRAD,DETER(+39006)

Biosystematic Codes: PSEUDOMONADALES(08200)

53017149

IRRADIATED POLY VINYL CHLORIDE PLASTIC AND GAS STERILIZATION IN THE PRODUCTION OF TRACHEAL STENOSIS FOLLOWING TRACHEOSTOMY LIPTON B; GUTIERREZ R; BLAUGRUND S; LITWAK R S; RENDELL-BAKER L

ANESTH ANALG 50 (4). 1971 578-586. Coden: AACRA

Descriptors: HUMAN OPEN HEART SURGERY ETHYLENE OXIDE

Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(06504); RADIATION BIOL-RADTN EFF,PROTECT(06506); BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-PHYSICAL,MECH EFFECTS(+10612); ANATOMY/HISTOL-SURGERY(+11105); CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-HEART PATHOLOGY(14506); RESPIRATORY SYST-GENL STUD,METHS(+16001); RESPIRATORY SYST-PATHOLOGY(+16006); TOXICOL-GENL/EXP STUDS,METHS(+22501); DISINFECTION,DISINFECTANTS,STERL(+39500)

Biosystematic Codes: HOMINIDAE(86215)

72093798

THE USE OF PLASTIC MATERIAL AS A MEDIUM FOR TRICKLING FILTERS TREATING DOMESTIC SEWAGE

AUDOIN L; BARABE J P; BREBION G; HURIET B

JENKINS, S.H. (ED.). ADVANCES IN WATER POLLUTION RESEARCH, VOLS. I + II. PROCEEDINGS OF THE 5TH INTERNATIONAL CONFERENCE INTERNATIONAL ASSOCIATION ON WATER POLLUTION RESEARCH SAN FRANCISCO, CALIF., U.S.A. JULY 27-31, 1970; HONOLULU, HAWAII, U.S.A. AUGUST 2-5, 1970. XVII+IRREG. P. (VOL. I). ILLUS. MAPS. XVI+IRREG. P. (VOL. II). ILLUS. MAPS. PERGAMON PRESS: OXFORD, ENGLAND; NEW YORK, N.Y., U.S.A. 1971 1971 11-16.1-11-16.10 Coden: 02529

Descriptors: POLY VINYL CHLORIDE BIOLOGICAL OXYGEN DEMAND

Concept Codes: ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM-GASES(+10012); BIOCHEM STUD-GENERAL(+10060); BIOPHYS--GENERAL, BIOPHYS TECH(+10504); ENVIRON HEALTH-SEW DISP,SANITAR(+37014); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

72089250

TOXICITY OF TISSUE CULTURE MEDIA EXPOSED TO POLY VINYL CHLORIDE PLASTIC

DEHAAN R L

NAT NEW BIOL 231 (20). 1971 85-86 Coden: NNBYA

Descriptors: NOTE CHICK EMBRYO

Concept Codes: BIOCHEM STUD-GENERAL(+10060); TOXICOL-GENL/E-XP STUDS,METHS(+22501); DEVELOPMNTL BIOL-EXPERIMENTAL(25504); TISS CULTURE-APPARAT,METHS,MEDIA(+32500)

Biosystematic Codes: GALLIFORMES(85536)

72024523

CONTAMINATION OF BLOOD STORED IN PLASTIC PACKS

JAEGER R J; RUBIN R J

LANCET 2 (7664). 1970 151 Coden: LANCA

Descriptors: LETTER RAT DI OCTYL PHTHALATE PLASTICIZER POLY VINYL CHLORIDE TUBING

Concept Codes: BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD,METAB PATHW(13002); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006); TOXICOL-GENL/EXP STUDS,METHS(+22501); PUB HEALTH-HEALTH SERV,MEDL CARE(+37012)

Biosystematic Codes: MURIDAE(86375)

72079761

DURABILITY OF POLY VINYL CHLORIDE FOAM POLYSTYROL STYROPOR RUTNER H

GNAEDINGER, FRIDOLIN (PRESIDENT). THE XXIIND INTERNATIONAL BEEKEEPING CONGRESS. SYMPOSIUM. 67IP. ILLUS. MAP. APIMONDIA PUBLISHING HOUSE: BUCHAREST, ROMANIA. 1969 561-562 Coden: O2362

Descriptors: ABSTRACT BEE HIVE MANUFACTURING

Concept Codes: GENERAL FIELD APPARATUS(+01010); ECONDM ENTOMOL-APICULTURE(+60018)

Biosystematic Codes: HYMENOPTERA(75326)

72023989

APPLICABILITY OF POLY VINYL CHLORIDE TUBES IN BLOOD SAMPLING FOR ACID BASE ANALYSIS/

KAUL I

MED SPORT (BERL) 11 (2). 1971 57-58 Coden: MESP8

Concept Codes: GENERAL LABORATORY APPARATUS(+01006); BLOOD/BODY FLDS-GENL STUDS,METHS(+15001)

Biosystematic Codes: VERTEBRATA-UNSPECIFIED(85150)

72049052

CHLORINATED BYPRODUCTS FROM VINYL CHLORIDE PRODUCTION A NEW SOURCE OF MARINE POLLUTION

JENSEN S; JERNELOV A; LANGE R; PALMORK K H

FAO (FOOD AGRIC ORGAN U N) FISH REP 99. 1971 170 Coden: FOFRA

Descriptors: ABSTRACT

Concept Codes: ECOLOGY-OCEANOGRAPHY(+07512); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

72014429

TERATOGENICITY OF A GROUP OF PHTHALATE ESTERS IN RATS

SINGH A R; LAWRENCE W H; AUTIAN J

TOXICOL APPL PHARMACOL 19 (2). 1971 372 Coden: TXAPA

Descriptors: ABSTRACT POLY VINYL CHLORIDE PLASTICIZER

Concept Codes: BIOCHEM STUD-GENERAL(10060); REPRODUCT SYST-PATHOLOGY(+16506); TOXICOL-GENL/EXP STUDS,METHS(+22501); DEVELOPMNTL BIOL-EXPER TERATOL(+25554)

Biosystematic Codes: MURIDAE(86375)

72041686

PLATELET ADHESION TO ARTIFICIAL SURFACES CONSEQUENCES OF FLOW EXPOSURE TIME BLOOD CONDITION AND SURFACE NATURE

FRIEDMAN L I; LEONARD E F

FED PROC 30 (5). 1971 1641-1646 Coden: FEPR4

Descriptors: DOG SILICONIZED GLASS FLUORINATED ETHYLENE PROPYLENE POLY AMIDE POLY VINYL CHLORIDE

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); MATHEMATIC BIOL/STATISTIC METH(04500); BIOCHEM STUD-GENERAL(+10060); BIOPHYS-GENERAL STUDIES(10502); BIOPHYS-BIOENGINEERING(10511); MOVEMENT(12100); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(+15002); BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004)

Biosystematic Codes: ROVIDAE(85715)

## TEMPERATURE-HYPO, HYPERTHERMIA(23006)

72007794

## EFFECTS OF VARIOUS PROTECTIVE WRAPPING MATERIALS ON THE RETAIL CASE LIFE OF BEEF CUTS

BERRY B W; SMITH G C; CARPENTER Z L  
 TEX AGRIC EXP STN PROG REP (2963-2999). 1971 93-95  
 Coden: TAEPA

Descriptors: VACUUM PACKING POLY VINYLIDENE CHLORIDE POLY VINYL CHLORIDE FILM

Concept Codes: BIOCHEM STUD-GENERAL(10060); EXTERN EFF-PRESSURE(10606); FOOD TECH-MEAT, MEAT BY-PRODUCTS(+13516); FOOD TECH-PREP, PROCESSNG, STORAGE(+13532)

Biosystematic Codes: BOVIDAE(85715)

72006374

## WEIGHT LOSS AS A METHOD FOR ESTIMATING THE MICROBIAL DETERIORATION OF POLY VINYL CHLORIDE FILM IN SOIL BURIAL/

WENDT T M; KAPLAN A M; GREENBERGER M  
 INT BIODETERIOR BULL 6 (4). 1970 139-143 Coden: IBDBA

Concept Codes: BIOCHEM STUD-GENERAL(10060); METABOLISM-GENL STUD, METAB PATHW(+13002); MICROORGANISMS-GENL, MIXED, UNSPEC(+2-9500); MICROBIOLOG APPARAT, METHS, MEDIA(32000); FOOD/INDUS MICRO-BIODEGRAD, DETER(+39006); SOIL MICROBIOLOGY(+40000); SOIL SCI-GENL STUDS, METHS(52801)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000)

72004529

## PROTECTIVE PACKAGING SYSTEMS FOR BEEF

REA R H; SMITH G C; CARPENTER Z L  
 J ANIM SCI 33 (1). 1971 223 Coden: JANS A  
 Descriptors: ABSTRACT POLY VINYL CHLORIDE FILM RUBBER HYDROCHLORIDE POLY ETHYLENE

Concept Codes: BIOCHEM STUD-GENERAL(10060); FOOD TECH-MEAT, MEAT BY-PRODUCTS(+13516); FOOD TECH-PREP, PROCESSNG, STORAGE(+13532)

Biosystematic Codes: BOVIDAE(85715)

52139690

## STUDIES ON THE APPLICATION OF PLASTICS IN FOODS PART 13 ABOUT THE REACTION OF PLASTICS WITH MILK

WILDBRETT G; EVERS K-W; KIERMEIER F  
 Z LEBENS-M-UNTERS FORSCH 142 (3). 1970 205-215. Coden: ZLUFA

Descriptors: POLY VINYL CHLORIDE

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(10066); BIOPHYS-MEMBRANE PHENOMENA(10508); EXTERN EFF-TEMPERATURE(10614); MOVEMENT(12100); FOOD TECH-DAIRY PRODUCTS(13518); FOOD TECH-PREP, PROCESSNG, STORAGE(+13532); TOXICOL-FOOD, RESIDS, ADDIT, PRESRV(+22502);

52123143

## A METHOD FOR OBTAINING PREPARATIONS FROM CALCIFIED TISSUES FOR THE STUDY IN ELECTRON MICROSCOPY

SINITSYN R G  
 ARKH PATOL 32 (1). 1970 86-89. Coden: ARPTA  
 Descriptors: BONE TEETH POLY VINYL CHLORIDE CHLORO BENZENE FRACTURES

Concept Codes: MICROSCOPY-HISTOL, HISTOCHEM TECH(01056); ELECTRON MICROSCOPY(+01058); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); EXTERN EFF-PRESSURE(10606); BONE, UNTS, FASC, CONN/ADIP-GENL(+18001); BONE, UNTS, FASC, CONN/ADIP-PATHOL(+18006); DENTAL/ORAL BIOL-GENL STUD, METHS(+19001)

Biosystematic Codes: CHORDATA-UNSPECIFIED(85000)

52122291

## EXPERIENCE WITH THE USE OF LARGE FRAME PHOTO FLUOROGRAPHY IN EXAMINING SKELETAL BONES OF PERSONS OCCUPATIONALLY DEALING WITH UNSATURATED HYDRO CARBONS OF THE ETHYLENE SERIES OLEFINS AND THEIR CHLORINE DERIVATIVES VINYL CHLORIDE TRI CHLORO ETHYLENE

BASALAEV A V  
 GIG TR PROF ZABOL 14 (11). 1970 34-37. Coden: GTPZA  
 Descriptors: OSTEO SCLEROSIS OSTEO POROSIS OSTEOLYSIS CYSTIC CHANGES NEURO DYSTROPHIC CHANGES

Concept Codes: PHOTOGRAPHY-METHS, MATLS, APPARAT(01012); RADIATION BIOL-RADTN, ISOTOP TECH(+06504); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); EXTERN EFF-PHYSICAL, MECH EFFECTS(10612); ANATOMY/HISTOL-RADIOLOGIC(11106); CHORDATE BODY REGNS-EXTREMITIES(11318); PATHOLOGY-DIAGNOSTIC(+12504); BONE, UNTS, FASC, CONN/ADIP-PATHOL(+18006); NERVOUS SYST-PATHOLOGY(+20506); TOXICOL-ENVIRONMNTL, INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

52122272

## A HYGIENIC ASSESSMENT OF PLASTIC ARTICLES USED FOR MEDICAL PURPOSES

KAMCHATNOV V P; PODOSINOVSKII V V; ASADULLINA Z Z  
 TR KAZAN MED INST 31 1969 423-427. Coden: TKZMB  
 Descriptors: HORSE SERUM HUMAN POLY VINYL CHLORIDE ALCOHOLS  
 WHITE LEAD TITANIUM OXIDE CALCIUM STEARATE  
 Concept Codes: BIOCHEM STUD-GENERAL(10060); MINERALS(10069);  
 MOVEMENT(12100); PATHOLOGY-THERAPY(12512); MINERALS(+13010);  
 BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); URIN SYST/EXT  
 SECR-PHYSL,BIOCHEM(15504); TOXICOL-GENL/EXP STUDS,METHS(+2250-  
 1); PUB HEALTH-DISINFCT,VECT CNT,PEST(37008)  
 Biosystematic Codes: EQUIDAE(86145); HOMINIDAE(86215)

52116519

## PLASTICIZERS IN POLY VINYL CHLORIDE AND THE OCCURRENCE OF HEPATITIS IN A HEMO DIALYSIS UNIT A PRELIMINARY COMMUNICATION

NEERGAARD J; NIELSEN B; FAURBY V; CHRISTENSEN D H; NIELSEN D F  
 SCAND J UROL NEPHROL 5 (2). 1971 141-145. Coden: SJUNA  
 Descriptors: HUMAN SIMILARITIES TO VIRAL HEPATITIS  
 Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL  
 BIOPHYS TECH(10504); PATHOLOGY-COMPARATIVE(12503); PATHOLOGY--  
 DIAGNOSTIC(12504); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508);  
 PATHOLOGY-THERAPY(12512); DIGESTIVE SYST-GENL STUDS,METHS(140-  
 01); DIGESTIVE SYST-PATHOLOGY(+14006); BLOOD/BODY FLDS-GENL  
 STUDS,METHS(+15001); TOXICOL-GENL/EXP STUDS,METHS(+22501);  
 MED/CLIN MICROBIOL-VIROLOGY(36006)  
 Biosystematic Codes: ANIMAL VIRUSES(03200); HOMINIDAE(86215)

52108716

## ONCOGENIC RESPONSE OF RAT SKIN LUNGS AND BONES TO VINYL CHLORIDE

VIOLA P L; BIGOTTI A; CAPUTO A  
 CANCER RES 31 (5). 1971 516-522. Coden: CNREA  
 Descriptors: CARCINOGEN EPIDERMOID CARCINOMA PAPILLOMA MUCO  
 EPIDERMOID CARCINOMA ADENO CARCINOMA EPIDERMOID TUMOR OSTEO  
 CHONDROMA  
 Concept Codes: ANATOMY/HISTOL-MICRO,ULTRAMICRSC(11108);  
 CHORDATE BODY REGNS-EXTREMITIES(11318); PATHOLOGY-DIAGNOSTIC(-  
 12504); RESPIRATORY SYST-PATHOLOGY(+16006); BONE,JNTS,FASC,CO-  
 NN/ADIP-GENL(18001); BONE,JNTS,FASC,CONN/ADIP-PATHOL(+18006);  
 INTEGUMENT SYST-PATHOLOGY(+18506); DENTAL/ORAL BIOL-PHYSIOL,B-  
 IOCHEM(19004); TOXICOL-GENL/EXP STUDS,METHS(+22501); NEOPLSMS-  
 /NEOPL AGNTS-DIAGNS METH(24001); NEOPLSMS/NEOPL AGNTS-CARCINO-  
 GENS(+24007)  
 Biosystematic Codes: MURIDAE(86375)

52104391

## RELATIVE RESPONSE OF DOSIMETERS TO COBALT-60 AND 25 NANO SECONDS PULSED ELECTRON IRRADIATIONS

MARTIN J A; JONES J L; DREHOTSKY R S  
 HEALTH PHYS 20 (3). 1971 267-275. Coden: HLTPA  
 Descriptors: POLY ETHYLENE CELLOPHANE CELLULOSE ACETATE POLY  
 VINYL CHLORIDE POLY VINYLIDENE CHLORIDE COBALT GLASS HIGH Z  
 SILVER ACTIVATED PHOSPHATE GLASS PLATES  
 Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(+06504);  
 RADIATION BIOL-RADTN EFF,PROTECT(+06506); BIOCHEM STUD-GENERA-  
 L(10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(10504)  
 ; EXTERN EFF-PRESSURE(10606)

52093119

## TOXICITY OF ETHYLENE OXIDE STERILIZATION OF POLY VINYL CHLORIDE IN OPEN HEART SURGERY

STANLEY P; BERTRANOU E; FOREST F; LANGEVIN L  
 J THORAC CARDIOVASC SURG 61 (2). 1971 309-314. Coden:  
 JTCSA  
 Descriptors: CHILD DOG TOXIC SHOCK  
 Concept Codes: BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL--  
 SURGERY(+11105); MOVEMENT(12100); PATHOLOGY-NECROSIS(12510);  
 PATHOLOGY-THERAPY(12512); DIGESTIVE SYST-PATHOLOGY(14006);  
 CARDIOVASC SYST-GENL STUDS,METHS(14501); CARDIOVASC SYST-HEART  
 PATHOLOGY(+14506); CARDIOVASC SYST-BLD VESS PATHOL(+14508);  
 RESPIRATORY SYST-GENL STUD,METHS(16001); RESPIRATORY  
 SYST-PATHOLOGY(16006); MUSCLE SYST-PATHOLOGY(17506); NERVOUS  
 SYST-PATHOLOGY(20506); ROUTES OF IMMUNIZ,INFECT,THERAP(22100);  
 TOXICOL-GENL/EXP STUDS,METHS(+22501); PEDIATRICS(25000);  
 DISINFECTION,DISINFECTANTS,STERL(+39500)  
 Biosystematic Codes: CANIDAE(85765); HOMINIDAE(86215)

52075521

## CHARACTERISTICS OF ELECTRO CARDIOGRAPHIC CHANGES IN PATIENTS WITH VINYL CHLORIDE POISONING

KUDRYAVTSEVA O F  
 GIG TR PROF ZABOL 14 (8). 1970 54-56. Coden: GTPZA  
 Descriptors: HEART DISTURBANCES  
 Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL  
 BIOPHYS TECH(10504); PATHOLOGY-DIAGNOSTIC(12504); CARDIOVASC  
 SYST-GENL STUDS,METHS(+14501); CARDIOVASC SYST-HEART  
 PATHOLOGY(+14506); CARDIOVASC SYST-BLD VESS PATHOL(14508);  
 TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL  
 HEALTH(+37013)  
 Biosystematic Codes: HOMINIDAE(86215)

52069943

**BARBITURATE ANESTHESIA IN DOGS WEARING COLLARS CONTAINING DICHLORVDS**

ELSEA J R; CLOYD G D; GILBERT D L; PERKINSON E; WARD J W  
J AMER VET MED ASS 157 (12). 1970 2068-2074. Coden:  
JAVMA

Descriptors: POLY VINYL CHLORIDE PLASTIC THIAMYLAL SODIUM  
PENTO BARBITAL SODIUM ANESTHETIC-DRUG ERYTHROCYTE CHOLIN  
ESTERASE

Concept Codes: BIOCHEM STUD-GENERAL(10060); ENZYMES-PHYSIOL-  
OGICAL STUDIES(10808); CHORDATE BODY REGNS-NECK(11308);  
BLOOD/BODY FLDS-BLOOD CELL STUDS(15004); INTEGUMENT  
SYST-PATHOLOGY(+18506); NERVOUS SYST-PHYSIOL,BIOCHEM(+20504);  
PHARMACOL-NEUROPHARMACOLOGY(+22024);  
TOXICOL-VETERINARY(+22508); VETERINARY SCI-PATHOLOGY(+38004);  
ECONOM ENTOMOL-ANIMAL PESTS(60012)

Biosystematic Codes: CANIDAE(85765); ABSTRACTS OF  
ENTOMOLOGY(96000)

52069632

**THE HYGIENIC EVALUATION OF FOOD CROPS GROWN IN THE SOIL IRRIGATED WITH INDUSTRIAL WASTE WATER**

VOROB EVA N M; LAPCHENKO V S; SHALYA Z A  
VOP PITAN 29 (4). 1970 85-86. Coden: VPITA  
Descriptors: MOUSE PUPPY CORN-M SUGAR BEET-D POLY VINYL  
CHLORIDE PRODUCTION NEGATIVE TOXICITY

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); ECOLOGY-WATR  
RESRCH,FISHERY BIOL(07517); BIOCHEM STUD-GENERAL(10060);  
BIOCHEM STUD-VITAMINS(10063); BIOCHEM STUD-PROTEINS,PEPTIDES,-  
AMINO ACID(10064); BIOCHEM STUD-PORPHYRINS,BILE PIGM(10065);  
BIOCHEM STUD-CARBOHYDR.(10068); PATHOLOGY-GENERAL STUDIES(+12-  
502); METABOLISM-CARBOHYDRATES(13004); METABOLISM-PROTNS,PEPT-  
DS,AM ACDS(13012); METABOLISM-PORPHYRINS,BILE PIGMN(13013);  
METABOLISM-VITAMINS,WATR-SOLUBLE(13018); FOOD TECH-GENL  
STUDS,METHS(13502); FOOD TECH-FRUIT,NUTS,VEGETABLES(13504);  
FOOD TECH-CEREAL CHEMISTRY(13510); FOOD TECH-EVALNS PHYS,CHEM  
PROPS(+13530); DIGESTIVE SYST-PHYSIOL,BIOCHEM(14004); BLOOD/B-  
ODY FLDS-BLOOD,LYMPH STUD(15002); BLOOD/BODY FLDS-BLOOD CELL  
STUDS(15004); ENDOCRINE SYST-ADRENALS(17004); INTEGUMENT  
SYST-PHYSIOL,BIOCHEM(18504);  
TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); ENVIRON HEALTH-SEWG  
DISP,SANITAR(+37014); PLANT PHYSIOL-GROWTH,DIFFRENTIAT(51510);  
PLANT PHYSIOL-CHEM CONSTITUENTS(51522); AGRONOMY-GRAIN  
CROPS(52504); AGRONOMY-SUGAR CROPS(52510); SOIL SCI-FERTILITY-  
APPLIED STUDS(52807)

Biosystematic Codes: GRAMINEAE(25305); CHENOPODIACEAE(25795)  
; CANIDAE(85765); MURIDAE(86375)

J ECON ENTOMOL 64 (1). 1971 1-3. Coden: JEENA

Descriptors: SOUTHERN HOUSE MOSQUITO CULEX-PIPIENS-QUINQUEF-  
ASCIATUS ABATE OURSBAN FENTHION NALED INSECTICIDES POLY VINYL  
CHLORIDE POLY ETHYLENE CHARCOAL FIELD POOL

Concept Codes: ECOLOGY-LIMNOLOGY(+07514); ECOLOGY-WATR  
RESRCH,FISHERY BIOL(07517); BIOCHEM STUD-GENERAL(10060);  
TOXICOL-GENL/EXP STUDS,METHS(22501); DEVELOPMNTL BIOL-GENL,DE-  
SCRIPTIVE(25502); PEST CONTRL GENL/PESTICS/HERBICS(54600);  
ECONOM ENTOMOL-ANIMAL PESTS(+60012); ECONOM ENTOMOL-CHEM PHYS  
CONTRL(+60016)

Biosystematic Codes: DIPTERA(75314); ABSTRACTS OF  
ENTOMOLOGY(96000)

52046336

**SANITARY AND CHEMICAL STUDIES OF SOME POLYMERIC MATERIALS**

GORODINSKII S M; SEMENENKO E I; GAZIEV G A; KOSTERINA E I;  
SHEVKUN O N; IVANOVA T G  
KOSM BIOL MED 4 (4). 1970 15-20. Coden: KBMEA

Descriptors: POLY VINYL CHLORIDE CAPROLACTAM POLY CARBONATE  
POLY URETHAN FIBERS RUBBER PLASTIC GLASS CAPROLITE

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM METH-GENERAL(+  
10050); BIOCHEM STUD-GENERAL(10060); EXTERN EFF-PRESSURE(1060-  
6); EXTERN EFF-TEMPERATURE(10614); EXTERN EFF-HOT(10618);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506);  
TEMPERATURE-GENL,METHS(23001);  
TEMPERATURE-HYPD,HYPERTHERMIA(23006); ENVIRON HEALTH-OCCUPATNL  
HEALTH(+37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215)

52046328

**LONG-TERM SIDE EFFECTS OF ACUTE OCCUPATIONAL POISONING BY CERTAIN HYDRO CARBONS AND THEIR DERIVATIVES**

SMIRNOVA N A; GRANIK N P  
GIG TR PROF ZABOL 14 (5). 1970 50-51. Coden: GTPZA  
Descriptors: HUMAN OLEFINS BENZYL METHYLENE CHLORIDE VINYL  
CHLORIDE DI CHLORO ETHANE TRI CHLORO ETHYLENE CHLORO BENZENE  
TETRA CHLORO ETHANE POLY CHLORO BUTANE NERVOUS DISORDERS

Concept Codes: BIOCHEM STUD-GENERAL(10060); PATHOLOGY-INFLA-  
MMATN,INFLAM DIS(12508); NERVOUS SYST-PATHOLOGY(+20506);  
TOXICOL-ENVIRONMNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL  
HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

52060126

**FIELD EVALUATION OF SLOW RELEASE MOSQUITO LARVICIDES**

WILKINSON R N; BARNES W W; GILLOGLY A R; MINNEMEYER C D

52046313

CONDITION OF THE BRONCHO PULMONARY SYSTEM IN WORKERS  
MANUFACTURING ARTICLES OF POLY VINYL CHLORIDE/  
VERTKIN Y I; MAMONTOV Y R

GIG TR PROF ZABOL 14 (10). 1970 29-32. Coden: GTPZA

Concept Codes: BIOCHEM STUD-GENERAL(10060); RESPIRATORY  
SYST-PATHOLOGY(\*16006); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506);  
ENVIRON HEALTH-OCCUPATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,W-  
ATR,SL POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215)

52046294

OCCUPATIONAL ACRO OSTEOLYSIS PART 1 AN EPIDEMIOLOGICAL STUDY  
DINMAN B D; COOK W A; WHITEHOUSE W M; MAGNUSON H J; DITCHCK  
T

ARCH ENVIRON HEALTH 22 (1). 1971 61-73. Coden: AEHLA

Descriptors: USA CANADA HUMAN POLY VINYL CHLORIDE VINYL  
CHLORIDE RAYNAUDS PHENOMENA

Concept Codes: BIOCHEM STUD-GENERAL(10060); CHORDATE BODY  
REGNS-EXTREMITIES(11318); CARDIOVASC SYST-BLD VESS  
PATHOL(\*14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL(\*18006); TOXI-  
COL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL  
HEALTH(\*37013); EPIDEMIOLOG-ORGANIC DIS,NEOPLASMS(\*37054)

Biosystematic Codes: HOMINIDAE(86215)

52044669

EVALUATION OF RELEASE RATES OF DURSBN FROM POLY VINYL  
CHLORIDE FORMULATIONS

NELSON L L; BARNES W W; HARRIS F W; LAWSON M A

J ECON ENTOMOL 63 (6). 1970 1870-1873. Coden: JEENA

Descriptors: INSECTICIDE ELECTRON CAPTURE GAS CHROMATOGRAPHY  
LIQUID SCINTILLATION COUNTING WATER RADIOACTIVE LABEL

Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(06504);  
ECOLOGY-OCEANOGRAPHY,LIMNOLOGY(07510); ECOLOGY-WATR RESRCH,FI-  
SHERY BIOL(07517); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENER-  
AL BIOPHYS TECH(10504); MOVEMENT(12100); PEST CONTRL  
GENL/PESTICS/HERBICS(\*54600)

Biosystematic Codes: ABSTRACTS OF ENTOMOLOGY(96000)

52039947

INVESTIGATIONS ON THE SURVIVAL TIME OF BACTERIA ON SURFACES  
AND THE POSSIBILITIES OF INFLUENCING IT PART 2 THE EFFECT OF  
VARIOUS COLORED SUBSTANCES AND DIFFERENT COLORS UNDER  
DIFFERENT ENVIRONMENTAL CONDITIONS

GUNDERMANN K O; SCHMEHE G

ARCH HYG BAKTERIOL 154 (2). 1970 110-114. Coden: AHBA

Descriptors: LACQUER DISPERSION PAINT GLUE BASED PAINT POLY.  
VINYL CHLORIDE

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL  
PROP,MACROMOLEC(10506);

BACTERIA-PHYSIOLOGY,BIOCHEMISTRY(\*31000); MED/CLIN MICROBIOL--  
BACTERIOLOGY(\*36002); PUB HEALTH-INANIMATE DIS VECTORS(\*37060)

Biosystematic Codes: BACTERIA-UNSPECIFIED(06000)

52036741

GRAVIMETRIC ELECTRON MICROSCOPICAL AND CHEMICAL STUDIES OF  
POLY VINYL CHLORIDE SHEETING AFTER SOIL BURIAL TESTS

PANTKE M

MATER ORGANISMEN (BERLIN) 5 (3). 1970 197-215. Coden:  
MTOGA

Descriptors: MICROORGANISMS

Concept Codes: ELECTRON MICROSCOPY(01058); BIOCHEM  
STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(10066); BIOPHYS-GENE-  
RAL BIOPHYS TECH(\*10504); MOVEMENT(12100); METABOLISM-GENL  
STUD,METAB PATHW(\*13002); MICROORGANISMS-GENL,MIXED,UNSPEC(\*2-  
9500); FOOD/INDUS MICRO-BIODEGRAD,DETER(\*39006); SOIL  
MICROBIOLOGY(\*40000); SOIL SCI-GENL STUDS,METHS(52801)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000)

52031277

ON THE EXTRACTABILITY OF DI ALKYL TIN COMPOUNDS FROM RIGID  
POLY VINYL CHLORIDE CONTAINERS/

KOMATSU Y; NAMIKI T; MORI F

J FOOD HYG SOC JAP 11 (1). 1970 17-22. Coden: SKEZA

Concept Codes: BIOCHEM STUD-GENERAL(\*10060); MINERALS(\*1006-  
9); EXTERN EFF-TEMPERATURE(10614); FOOD TECH-GENL  
STUDS,METHS(\*13502); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532);  
TEMPERATURE-GENL,METHS(23001)

52023230

## EXPERIMENTAL STONE FORMATION IN RATS

BIRKHOLZ W; RIEDEL B

UROLOGE 9 (4). 1970 230-234. Coden: URLGA

Descriptors: 4 AMINO BENZOLSULFONAMIDE THIAZOLE POLY VINYL CHLORIDE TOXICITY

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064); BIOCHEM STUD-CARBOHYDR.(10068); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(10504); METABOLISM-CARBOHYDRATES(+13004); MINERALS(+13010); METABOLISM-PROTNS,PEPTDS,AM ACDS(+13012); DIGESTIVE SYST-GENL STUDS,METHS(14001); URIN SYST/EXT SECR-PHYSL,BIOCHEM(+15504); URIN SYST/EXT SECR-PATHOLOGY(+15506); COELOM MEMBRANES,MESENTERIES,ETC(18200); PHARMACOL-URINARY SYST(+22032); ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP STUDS,METHS(+22501)

Biosystematic Codes: MURIDAE(86375)

52023141

## SPECIFICITY OF METHODS FOR ANALYZING HARMFUL SUBSTANCES WHEN INVESTIGATING THE HYGIENIC PROPERTIES OF PLASTICS

VOL SKII E V; KHARITONOVA A A

GIG SANIT 35 (1). 1970 88-91. Coden: GISAA

Descriptors: POLY VINYL CHLORIDE EPOXY RESINS METHYL METHACRYLATE

Concept Codes: BIOCHEM STUD-GENERAL(10060); TOXICOL-ENVIRON-MNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

52019185

## SUSCEPTIBILITY OF POLY VINYL CHLORIDE POLY URETHANE AND POLYTHENE FILMS TO INSECT ATTACK

NIGAM B S; PERTI S L; AGARWAL P N

LABDEV J SCI TECHNOL PART B LIFE SCI 8 (3). 1970 145-147. Coden: LALSA

Descriptors: HETEROTERMES-INDICOLA ANTHRENUS-FLAVIPES PERIPLANETA-AMERICANA

Concept Codes: BIOCHEM STUD-GENERAL(10060); ECONOM ENTOMOL-STORED PRODUCTS(+60008); ECONOM ENTOMOL-CHEM PHYS CONTRL(+60016)

Biosystematic Codes: COLEOPTERA(75304); ISOPTERA(75328); ORTHOPTERA(75340); ABSTRACTS OF ENTOMOLOGY(96000)

52018019

## PREPARATIVE SEPARATION OF HEMO GLOBIN VARIANTS BY ZONE ELECTROPHORESIS IN POLY VINYL CHLORIDE/

BLACKWELL R Q; WENG M-I

J FORMOSAN MED ASS 69 (1) 1970 58-60 Coden: JFOSA

Concept Codes: BIOCHEM METH-PROTNS,PEPTDS,AM AC(10054); BIOCHEM METH-PORPHYRNS,BILE PIGM(10055); BIOCHEM STUD-GENERAL-(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(+10064); BIOCHEM STUD-PORPHYRNS,BILE PIGM(+10065); BIOPHYS-GENERAL BIOPHYS TECH(+10504); MOVEMENT(12100); BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004); BLOOD/BODY FLDS-BLD,LYM,RES PATH(+15006)

Biosystematic Codes: CHORDATA-UNSPECIFIED(85000)

52006215

## SOME PECULIARITIES OF WATER TRANSPORT THROUGH PLASTICIZED NONPOROUS MEMBRANES

MARIAN S; JAGUR-GRODZINSKI J; KEDEM O; VOFSI D

BIOPHYS J 10 (9). 1970 901-910. Coden: BIOJA

Descriptors: POLY VINYL CHLORIDE

Concept Codes: CYTOLOGY/CYTOCHEM-GENL STUDIES(+02502); MATHEMATIC BIOL/STATISTIC METH(04500); BIOCHEM-PHYSIOLOG WATER STUD(+10011); BIOCHEM STUD-GENERAL(+10060); BIOPHYS-GENERAL STUDIES(10502); BIOPHYS-MOLECUL PROP,MACROMOLEC(+10506); BIOPHYS-MEMBRANE PHENOMENA(+10508); EXTERN EFF-TEMPERATURE(10614); MOVEMENT(+12100); TEMPERATURE-GENL,METHS(23001)

52001424

## POLY VINYL CHLORIDE INSECTICIDE PELLETS FED TO CATTLE TO CONTROL FACE FLY LARVAE IN MANURE

LLOYD J E; MATTHYSSE J G

J ECON ENTOMOL 63 (4). 1970 1271-1281. Coden: JEENA

Descriptors: MUSCA-AUTUMNALIS DIAZINON DICHLORVOS DIMETHOATE DIMETILAN ACETONE SOLUTION DIGESTIVE TRACT

Concept Codes: BIOCHEM STUD-GENERAL(10060); PATHOLOGY-NECROSIS(12510); DIGESTIVE SYST-PHYSIOL,BIOCHEM(+14004); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(22502); DEVELOPMNTL BIOL-GENL,DESCRIPTIVE(25502); PEST CONTRL GENL/PESTICS/HERBICS(54600); ECONOM ENTOMOL-ANIMAL PESTS(+60012); ECONOM ENTOMOL-CHEM PHYS CONTRL(+60016)

Biosystematic Codes: DIPTERA(75314); BOVIDAE(85715); ABSTRACTS OF ENTOMOLOGY(96000)

71088546

PLASTAZOTE POLY VINYL CHLORIDE SPLINTS A NEW RAPID AND  
INEXPENSIVE METHOD OF SPLINTING

GLENTING P

UGESKR LAEG 132 (4). 1970 142-143 Coden: UGLAA

Descriptors: CHILD

Concept Codes: BIOPHYS-BIOENGINEERING(\*10511); CHORDATE BODY  
REGNS-EXTREMITIES(\*11318); PATHOLOGY-GENERAL STUDIES(\*12502);  
PATHOLOGY-THERAPY(\*12512); PEDIATRICS(\*25000)

Biosystematic Codes: HOMINIDAE(86215)

71079952

HUMAN TOXICITY STUDIES ON POLY VINYL CHLORIDE FORMULATION OF  
DICHLORVOS

HINE C R; SLOMKA M B

TOXICOL APPL PHARMACOL 17 (1). 1970 304-305 Coden: TXAPA

Descriptors: ABSTRACT ANTI HELMINTH GASTRO INTESTINAL TRACT

Concept Codes: BIOCHEM STUD-GENERAL(10060); DIGESTIVE  
SYST-PATHOLOGY(\*14006); PHARMACOL-GENERAL STUDIES(\*22002);  
TOXICOL-PHARMACOLOGICAL(\*22504); CHEMOTHERAPY-ANTIPARASITIC  
AGENTS(\*38510); PEST CONTRL GENL/PESTICS/HERBICS(54600)Biosystematic Codes: HOMINIDAE(86215); ABSTRACTS OF  
ENTOMOLOGY(96000)

71070108

WHITE FINGERS

ANON

J AM MED ASSOC 215 (4). 1971 631 Coden: JAMAA

Descriptors: EDITORIAL WORKERS RAYNAUDS PHENOMENON POLY  
VINYL CHLORIDE TOXICITY ACRO OSTEOLYSISConcept Codes: BIOCHEM STUD-GENERAL(10060); CHORDATE BODY  
REGNS-EXTREMITIES(\*11318);  
BONE,JNTS,FASC,CONN/ADIP-PATHOL(\*18006); INTEGUMENT SYST-PHYS-  
IOL,BIOCHEM(\*18504); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENV-  
IRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

71062285

THE USE OF POLY VINYL CHLORIDE COATINGS IN DUNGENESS CRAB  
POT CONSTRUCTION

PEREYRA W T

PROC NAT SHELLFISH ASS 61. 1971 12 Coden: PNSFA

Descriptors: ABSTRACT FISHING TOOL

Concept Codes: GENERAL FIELD APPARATUS(\*01010);  
ECOLOGY-OCEANOGRAPHY,LIMNOLOGY(07510); ECOLOGY-AQUATIC WILDLI-  
FE MGMT(\*07516); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517);  
INVERTB PHYSIOL-CRUSTACEA(64054)

Biosystematic Codes: MALACOSTRACA(75112)

71044740

ACRO OSTEOLYSIS IN POLY VINYL CHLORIDE WORKERS

GITSIOS C T

MED BULL STAND OIL CO (N J) AFFILIATED CO 31 (1). 1971  
49-56 Coden: MBSOA

Descriptors: EUROPE USA HAND TERMINAL PHALANGES TOXICITY

Concept Codes: BIOCHEM STUD-GENERAL(10060); CHORDATE BODY  
REGNS-EXTREMITIES(\*11318);  
BONE,JNTS,FASC,CONN/ADIP-PATHOL(\*18006);  
TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL  
HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

71029901

SURVIVAL OF ASPERGILLUS-NIGER SPORES IN VARIOUS RELATIVE  
HUMIDITY CONDITIONS AT 60 CELSIUS

BOMAR M T

INT BIODETERIORATION BULL 6 (3). 1970 101-103 Coden:  
IBDBADescriptors: MICRO BIO DETERIORATION PHENOL FORMALDEHYDE  
RESIN POLY VINYL CHLORIDEConcept Codes: BIOCHEM STUD-GENERAL(10060); EXTERN  
EFF-HOT(\*10618); TEMPERATURE-GENL,METHS(23001); FOOD/INDUS  
MICRO-BIODEGRAD,DETER(\*39006);  
DISINFECTION,DISINFECTANTS,STERL(\*39500); PLANT PHYSIOL-WATER  
RELATIONS(\*51502); PLANT PHYSIOL-TEMPERATURE(\*51503); PLANT  
PHYSIOL-REPRODUCTION(\*51512)

Biosystematic Codes: DEUTEROMYCETES(15500)

Biosystematic Codes: MICROORGANISMS-UNSPECIFIED(01000)

71018298

RAPID MICRO ESTIMATION OF PROTEINS BY MEMBRANE  
CHROMATOGRAPHY ON POLY VINYL CHLORIDE ULTRA FILTERS

PRISTOUPILOVA I; KRAMLOVA M

EXPERIENTIA 26 (9). 1970 1045-1046 Coden: EXPEA

Descriptors: COW HUMAN HORSE ALBUMIN GAMMA GLOBULIN  
FIBRINOGEN OV ALBUMIN MYO GLOBIN RNASEConcept Codes: GENERAL LABORATORY METHODS(\*01004); GENERAL  
LABORATORY APPARATUS(\*01006); BIOCHEM STUD-GENERAL(10060);  
BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(\*10064); BIOPHYS-GEN-  
ERAL BIOPHYS TECH(\*10504); BIOPHYS-MOLECUL PROP,MACROMOLEC(10-  
506); BIOPHYS-MEMBRANE PHENOMENA(\*10508); ENZYMES-CHEM,PHYSIC-  
AL STUDIES(10806); MOVEMENT(12100); BLOOD/BODY FLDS-BLOOD,LYM-  
PH STUD(15002)Biosystematic Codes: BOVIDAE(85715); EQUIDAE(86145);  
HOMINIDAE(86215)

71007923

RELATIONSHIP BETWEEN MOLECULAR WEIGHT AND AREA OF PROTEIN  
FILMS IMMOBILIZED ON POLY VINYL CHLORIDE MEMBRANES/

PRISTOUPILOVA I; KRAMLOVA M

FEBS LETT 9 (2). 1970 117-118 Coden: FEBLA

Concept Codes: BIOCHEM METH-PROTNS,PEPTDS,AM AC(\*10054);  
BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(\*10064); BIOPHYS-GEN-  
ERAL BIOPHYS TECH(\*10504); BIOPHYS-MOLECUL PROP,MACROMOLEC(\*1-  
0506); BIOPHYS-MEMBRANE PHENOMENA(10508)

51136682

A REVIEW ON THE RECENT 10 YEARS LITERATURES OF TOLUENE  
POISONING

HORIGUCHI S

SUMITOMO BULL IND HEALTH (4). 1968 189-196. Coden: SSEIB

Descriptors: JAPAN BENZENE VINYL CHLORIDE

Concept Codes: BIOCHEM STUD-GENERAL(10060); TOXICOL-GENL/EXP  
STUDS,METHS(\*22501); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENV-  
IRON HEALTH-OCCUPATNL HEALTH(\*37013)

Biosystematic Codes: HOMINIDAE(86215)

51132314

RADIATION STERILIZATION OF MATERIAL OF POLY VINYL CHLORIDE  
AND POLY ETHYLENE/

DPLETAL Z

CESK FARM 18 (10). 1969 532-534. Coden: CKFRA

Concept Codes: RADIATION BIOL-RADTN,ISOTOP TECH(\*06504);  
BIOCHEM METH-MINERALS(10059); BIOCHEM STUD-GENERAL(10060);  
BIOPHYS-GENERAL BIOPHYS TECH(10504); MED/CLIN MICROBIOL-GEN,M-  
ETH,TECH(\*36001); PUB HEALTH-DISINFECT,VECT CNT,PEST(\*37008);  
DISINFECTANT DISINFECTANTS,STEC(100500)

51125365

INFLUENCE OF POLY VINYL CHLORIDE DUST ON THE RAT RESPIRATORY  
SYSTEM

POPOW J

RODZ AKAD MED JULIANA MARCHLEWSKIEGO BIALYMSTOKU (SUPPL.  
24). 1969 1-48. Coden: RJMBA

Descriptors: PNEUMO CONIOSIS

Concept Codes: MINERALS(10069); MINERALS(13010); RESPIRATORY  
SYST-PATHOLOGY(\*16006); TOXICOL-GENL/EXP STUDS,METHS(\*22501);  
TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUPATNL  
HEALTH(\*37013)

Biosystematic Codes: MURIDAE(86375)

51113976

DYNAMIC CHANGES IN EPINEPHRINE-LIKE SUBSTANCES IN RABBIT  
BLOOD FOLLOWING CHRONIC EXPOSURE TO VINYL CHLORIDE FUMES/

VAZIN A N; PLOKHOVA E I

GIG TR PROF ZABOL 13 (6). 1969 46-47. Coden: GTPZA

Concept Codes: BIOCHEM-GASES(10012); BIOCHEM STUD-GENERAL(1-  
0060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACID(10064);  
METABOLISM-PROTNS,PEPTDS,AM ACOS(13012); CARDIOVASC SYST-BLD  
VESS PATHOL(\*14508); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(\*15002);  
ENDOCRINE SYST-ADRENALS(\*17004); NERVOUS SYST-PATHOLOGY(\*2050-  
6); TOXICOL-ENVIRONMNTL,INDUSTR(\*22506); ENVIRON HEALTH-OCCUP-  
ATNL HEALTH(\*37013); ENVIRON HEALTH-AIR,WATR,SL POLLN(\*37015)

Biosystematic Codes: LEPORIDAE(86040)

51094492

INVESTIGATIONS AND OBSERVATIONS ON THE APPLICATION OF  
PLASTICS IN FOODS PART 12 MIGRATION OF MONOMERIC PLASTICIZERS  
FROM POLY VINYL CHLORIDE TUBES INTO CLEANSING SOLUTIONS

WILDBRETT G; EVERS K W; KIERMEIER F

FETTE SEIFEN ANSTRICHM 71 (4). 1969 330-335. Coden:  
FSANA

Descriptors: MILK

Concept Codes: BIOCHEM STUD-GENERAL(10060); FOOD TECH-DAIRY  
PRODUCTS(\*13518); FOOD TECH-PREP,PROCESSNG,STORAGE(\*13532)

51078930

## SANITARY CHEMICAL FEATURES OF POLY VINYL CHLORIDE COATINGS FOR FLOORS

KAL MANOVICH F L

GIG SANIT 33 (2). 1968 107-111. Coden: GISAA

Descriptors: HUMAN

Concept Codes: BIOCHEM STUD-GENERAL(10060); TOXICOL-GENL/EXP STUDS,METHS(+22501); PEDIATRICS(25000); PUB HEALTH-ADMINISTR,- STATISTICS(+37010); ENVIRON HEALTH-AIR,WATR,SL POLLN(37015)

Biosystematic Codes: HOMINIDAE(86215)

51078909

## GAS LIQUID CHROMATOGRAPHY DETERMINATION OF DICHLORVUS EXTRACTED OR VACUUM TRAPPED FROM POLY VINYL CHLORIDE RESIN FORMULATIONS

ST CLAIR A D; LAMBERTON J G; CLAEYS R R; GOULDING R L

J ASS OFFIC ANAL CHEM 52 (5). 1969 1010-1014. Coden: JANCA

Descriptors: VAPONA PESTICIDE

Concept Codes: BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(+10504); TOXICOL-GENL/EXP STUDS,METHS(+22501); PEST CONTRL GENL/PESTIC-S/HERBICS(+54600)

51049734

## MONITORING EXPOSURES TO VINYL CHLORIDE VAPOR BREATH ANALYSIS AND CONTINUOUS AIR SAMPLING

BARETTA E D; STEWART R D; MUTCHLER J E

AMER IND HYG ASS J 30 (6). 1969 537-544. Coden: AIHAA

Descriptors: HUMAN

Concept Codes: GENL BIOL-INFRMTN,DOCU,COMP APPL(00530); CLIN BIOCHEM-GENL STUDIES(+10006); BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); RESPIRATORY SYST-GENL STUD,METHS(+16001); RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); TOXICOL-ENVIRONMNTL,- INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

51043945

## CREATION OF AN EXPERIMENTAL MODEL OF TOXIC ANGIO NEUROSIS DEVELOPING FROM THE CHRONIC ACTION OF VINYL CHLORIDE VAPORS ON AN ORGANISM

VAZIN A N; PLOKHOVA E I

GIG TR PROF ZABOL 12 (7). 1968 47-49. Coden: GTPZA

Descriptors: RABBIT

Concept Codes: BIOCHEM STUD-GENERAL(10060); CARDIOVASC SYST-HEART PATHOLOGY(+14506); BLOOD/BODY FLDS-BLOOD,LYMPH STUD(15002); NERVOUS SYST-PATHOLOGY(+20506); TOXICOL-ENVIRONMNTL,-

NTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: LEPORIDAE(86040); HOMINIDAE(86215)

51043823

## HYGIENIC CHEMICAL ASPECTS OF PLASTICS PART 1 ELUTION TEST OF PLASTIC MATERIALS FOR FOOD PACKAGING AND WARES

TATSUNO T; IWAIDA M; KAWASHIRO I

BULL NAT INST HYG SCI TOKYO (86). 1968 124-127. Coden: BNHYA

Descriptors: POLY VINYL CHLORIDE POLY ETHYLENE POLY PROPYLENE

Concept Codes: BIOCHEM METH-GENERAL(+10050); BIOCHEM STUD-GENERAL(10060); FOOD TECH-PREP,PROCESSNG,STORAGE(+13532); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(+22502); PUB HEALTH-ADMINISTR, STATISTICS(+37010)

51043746

## STUDIES ON PLASTICS FOR MEDICAL USES PART 9 ANALYSES OF PLASTICIZER AND HEAVY METALS IN POLY VINYL CHLORIDE BLOOD BAGS AND SETS

HORIBE T; MIZUMACHI S; KIKUCHI H

BULL NAT INST HYG SCI TOKYO (86). 1968 122-124. Coden: BNHYA

Descriptors: LEAD CADMIUM TIN

Concept Codes: BIOCHEM METH-MINERALS(+10059); BIOCHEM STUD-GENERAL(10060); MINERALS(10069); BIOPHYS-GENERAL BIOPHYS TECH(10504); BLOOD/BODY FLDS-GENL STUDS,METHS(+15001); TOXICOL-GENL/EXP STUDS,METHS(+22501); PUB HEALTH-ADMINISTR, STATISTICS(+37010)

Biosystematic Codes: HOMINIDAE(86215)

51043423

## PHYSICO-CHEMICAL ANALYSIS OF PLASTIC CONTAINERS FOR INJECTABLE DRUGS

PELLERIN F; MANCHERON D

ANN PHARM FR 27 (1). 1969 65-71. Coden: APFRA

Descriptors: SPECTROPHOTOMETRY CHROMATOGRAPHY POLY ETHYLENES POLY PROPYLENES POLY VINYL CHLORIDE

Concept Codes: BIOCHEM METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); PHARMACOL-GENERAL STUDIES(+22002); ROUTES OF IMMUNIZ,INFECT,T-HERAP(22100)

51038122

OCCUPATIONAL POISONING BY VINYL CHLORIDE

ANTONYUZHENKO V A

GIG TR PROF ZABOL 12 (3). 1968 50-52. Coden: GTPZA

Descriptors: HUMAN

Concept Codes: BIOCHEM STUD-GENERAL(10060); TOXICOL-ENVIRON-MNTL,INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(+37013)

Biosystematic Codes: HOMINIDAE(86215)

51038005

STUDY OF THE PYROLYSIS OF MATERIAL IN PLASTIC SUBSTANCES  
PART 1 POLY VINYL CHLORIDE CHARACTERIZATION OF POSSIBLE  
VOLATILE TOXIC COMPOUNDS

LE MOAN G; CHAIGNEAU M

ANN PHARM FR 27 (2). 1969 97-101. Coden: APFRA

Descriptors: POLLUTION HYDRO CHLORIC-ACID

Concept Codes: BIOCHEM STUD-GENERAL(10060); TOXICOL-GENL/EXP  
STUDS,METHS(+22501); TOXICOL-FOOD,RESIDS,ADDIT,PRESRV(22502);  
TOXICOL-PHARMACOLOGICAL(22504); ENVIRON HEALTH-AIR,WATR,SL  
POLLN(+37015)

51026538

TOXICITY OF PYROLYSIS PRODUCTS OF VINYL PLASTICS

CORNISH H H; ABAR E L

ARCH ENVIRON HEALTH 19 (1). 1969 15-21. Coden: AEHLA

Descriptors: RATS POLY VINYL CHLORIDE CARBON MON OXIDE  
CARBOXY HEMO GLOBIN

Concept Codes: MICROSCOPY-HISTOL,HISTOCHEM TECH(01056);  
BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOCHEM  
STUD-PORPHYRNS,BILE PIGM(10065); CARDIOVASC SYST-BLD VESS  
PATHOL(14508); BLOOD/BODY FLOS-BLOOD CELL STUDS(+15004);  
RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); RESPIRATORY SYST-PAT-  
HOLOGY(16006); TOXICOL-GENL/EXP STUDS,METHS(+22501); TEMPERAT-  
URE-GENL,METHS(23001); ENVIRON HEALTH-AIR,WATR,SL POLLN(+3701-  
5)

Biosystematic Codes: MURIDAE(86375)

70056153

HUMAN TOLERANCE TO THE ACUTE AND SUBACUTE ORAL  
ADMINISTRATION OF A POLY VINYL CHLORIDE FORMULATION OF  
DICHLORVOS V-3 AND V-12

HINE C H; SLOMKA M B

PHARMACOLOGIST 10 (2). 1968 222 Coden: PHMCA

Descriptors: ABSTRACT PESTICIDE CHOLIN ESTERASE

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); ENZYMES-PHYSIOLOGICAL  
STUDIES(+10808); DENTAL/ORAL BIOL-GENL STUD,METHS(19001);  
ROUTES OF IMMUNIZ,INFECT,THERAP(22100); TOXICOL-GENL/EXP

STUDS,METHS(+22501); PEST CONTRL GENL/PESTICS/HERBICS(+54600)  
Biosystematic Codes: HOMINIDAE(86215)

70034830

USE OF PLASTICIZED POLY VINYL CHLORIDE FOR THE MANUFACTURE  
OF URETHRAL AND URETERAL CATHETERS

SEMIN V A; KAMALETDINOV R Z; KHISMETOVA F S; ZABIROV M S

BIOMED ENG 2 (4). 1968 212-214 Coden: BIDEA

Descriptors: HUMAN

Concept Codes: BIOCHEM METH-GENERAL(+10050); BIOCHEM  
STUD-GENERAL(10060); BIOPHYS-BIOENGINEERING(+10511); URIN  
SYST/EXT SECR-GEN STUD,METH(+15501); URIN SYST/EXT  
SECR-PHYSL,BIOCHEM(+15504)

Biosystematic Codes: HOMINIDAE(86215)

70002325

WHATS IN POLY VINYL CHLORIDE

COWPER S G

LANCET 2 (7561). 1968 221 Coden: LANCA

Descriptors: LETTER

Concept Codes: BIOCHEM STUD-GENERAL(10060); TOXICOL-GENL/EXP  
STUDS,METHS(+22501); PARASITOLOGY-GENERAL(+60502); INVERTB  
PHYSIOL-PLATYHELMINTHES(64010)

Biosystematic Codes: CESTODA(45100); TREMATODA(45200)

50113873

ISOLATION OF HISTAMINE LIBERATING AND VASCULAR PERMEABILITY INCREASING POLY PEPTIDES FROM LYSOSOMAL GRANULES OF POLYMORPHONUCLEAR LEUKOCYTES IN CIRCULATING BOVINE BLOOD RAT RABBIT TRITON X-100 INST POLY VINYL CHLORIDE BLOCK ELECTROPHORESIS INST GEL FILTRATION/

FRIMMER M; LUTZ F

ARCH PHARMAKOL EXP PATHOL (NAUNYN-SCHMIEDEBERGS) 263 (2). 297-313. 1969. Coden: APEPA

Concept Codes: CYTOLOGY/CYTOCHEM-HUMAN(02508); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO ACD(10064); BIOPHYS-GENERAL BIOPHYS TECH(10504); BIOPHYS-MOLECUL PROP,MACROMOLEC(10506); BIOPHYS-MEMBRANE PHENOMENA(10508); DIGESTIVE SYST-GENL STUDS,METHS(14001); CARDIOVASC SYST-PHYSIOL,BIOCHEM(14504); BLOOD/BODY FLDS-BLOOD CELL STUDS(+15004); INTEGUMENT SYST-GENL STUDS,METHS(18501); INTEGUMENT SYST-PHYSIOL,BIOCHEM(18504); PHARMACOL-CARDIOVASC SYST(22010); ROUTES OF IMMUNIZ,INFECT,TH-ERAP(22100); IN VITRO STUDS-CELLULR,SUBCELL(32600)

Biosystematic Codes: BOVIDAE(85715); LEPORIDAE(86040); MURIDAE(86375)

50073668

EPOXIDATION OF ALKYL ESTERS OF 12 13 EPOXY OLEIC-ACIDS AND EVALUATION OF THE DI EPOXIDES AS PLASTICIZERS FOR POLY VINYL CHLORIDE SOY BEAN-O OIL/

RUSLING J F; RISER G R; SNOOK M E; SCOTT W E

J AMER OIL CHEM SOC 45 (11). 760-763. 1968. Coden: JADCA

Concept Codes: BIOCHEM METH-LIPIDS(10050); BIOCHEM STUD-GENERAL(10060); BIOCHEM STUD-LIPIDS(+10066); MINERALS(10-069); TEMPERATURE-GENL,METHS(23001); PLANT PHYSIOL-CHEM CONSTITUENTS(51522); AGRONOMY-OIL CROPS(52514)

Biosystematic Codes: LEGUMINOSAE(26260)

50071265

OCCUPATIONAL DERMATOSES IN PERSONS DEALING WITH PAINTS AND VARNISHES EPOXY RESIN CARBONIDE FORMALDEHYDE RESIN ACRYLCI RESIN POLY VINYL CHLORIDE RESIN PHENOL FORMALDEHYDE RESIN/

ROGAILIN V I

GIG TR PROF ZABOL 12 (10). 35-39. 1968. Coden: GTPZA

Concept Codes: INTEGUMENT SYST-GENL STUDS,METHS(18501); INTEGUMENT SYST-PATHOLOGY(18506); ROUTES OF IMMUNIZ,INFECT,TH-ERAP(22100); TOXICOL-ENVIRONMNTL,INDUSTR(22506); IMMUNOL/IMMUNOCHEM-IMMUNOPATHOL(34508); ALLERGY(+35500); ENVIRON HEALTH-OCCUPATNL HEALTH(37013)

Biosystematic Codes: HOMINIDAE(86215)

CHLORIDE CATHETERS HUMAN RABBIT/

GUESS W L; STETSON J B

J AMER MED ASS 204 (7). 580-584. 1968. Coden: JAMAA

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); BIOCHEM STUD-GENERAL(10060); PATHOLOGY-INFLAMMATN,INFLAM DIS(12508); RESPIRATORY SYST-GENL STUD,METHS(16001); RESPIRATORY SYST-PATHOLOGY(16006); MUSCLE SYST-PATHOLOGY(17506); TOXICOL--GENL/EXP STUDS,METHS(+22501); TISS CULTURE-APPARAT,METHS,MEDI-A(32500)

Biosystematic Codes: LEPORIDAE(86040); HOMINIDAE(86215)

50039683

THERMAL EVALUATION OF THE POLY VINYL CHLORIDE EXPOSURE SUIT EMPRESS AND COMPARISON WITH PRESENT SUBMARINE DECK EXPOSURE SUIT HUMAN/

HALL D A; NOBEL J J

U S NAV SUBMAR MED CENTER REP (527). 1-22. 1968. Coden: XNSRB

Concept Codes: AEROSP/UNDRWATR BIOL-PHYSIOL,MED(06006); AEROSP/UNDRWATR BIOL-ENGNER,INST(+06008); ECOLOGY-ANIMAL(0750-8); ECOLOGY-WATR RESRCH,FISHERY BIOL(07517); EXTERN EFF-GENL STUD(10602); TEMPERATURE-HYPO,HYPERTHERMIA(23006)

Biosystematic Codes: HOMINIDAE(86215)

50033561

A SIMPLE METHOD OF MAKING INST SIEVES USING NYLON GAUZE AND INST POLY VINYL CHLORIDE TUBING NEMATOLOGY/

YEATES G W

NEMATOLOGICA 14 (3). 456-458. 1968. Coden: NEMAA

Concept Codes: GENERAL LABORATORY METHODS(01004); GENERAL LABORATORY APPARATUS(01006); ECOLOGY-ANIMAL(07508); SOIL SCI-GENL(52802); INVERTB PHYSIOL-ASCHELMINTHES(+64016)

Biosystematic Codes: NEMATODA(51300)

50030957

ACRO OSTEOLYSIS OCCURRING IN MEN ENGAGED IN THE POLYMERIZATION OF VINYL CHLORIDE/

HARRIS D K; ADAMS W G F

BRIT MED J (5567). 712-714. 1967. Coden: BMJDA

Concept Codes: BIOCHEM STUD-GENERAL(10060); CARDIOVASC SYST-BLD VESS PATHOL(14508); BONE,JNTS,FASC,CONN/ADIP-PATHOL(-18006); INTEGUMENT SYST-PATHOLOGY(18506); TOXICOL-ENVIRONMNTL-INDUSTR(+22506); ENVIRON HEALTH-OCCUPATNL HEALTH(37013)

Biosystematic Codes: HOMINIDAE(86215)

5004211

TISSUE REACTIONS TO ORGANO TIN STABILIZED INST POLY VINYL

50029289

AN ADVERSE EFFECT OF POLY VINYL CHLORIDE TUBING USED IN INST  
EXTRACORPOREAL CIRCULATION DOG HUMAN CAT/

DUKE H N; VANE J R

LANCET (7558). 21-23. 1968. Coden: LANCA

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
STUD-PROTEINS, PEPTIDES, AMINO ACID(10064); BIOPHYS-GENERAL  
BIOPHYS TECH(10504); BIOPHYS-BIOENGINEERING(10511); CARDIOVASC  
SYST-GENL STUDS, METHS(+14501); CARDIOVASC SYST-BLD VESS  
PATHOL(14508); BLOOD/BODY FLDS-OTHER BODY FLDS(15010);  
RESPIRATORY SYST-GENL STUD, METHS(16001); RESPIRATORY  
SYST-PATHOLOGY(16006); ENDOCRINE SYST-GENERAL STUDIES(17002);  
ENDOCRINE SYST-ADRENALS(17004); NERVOUS SYST-GENL STUDS, METHS-  
(20501); PHARMACOL-NEUROPHARMACOLOGY(22024); ROUTES OF  
IMMUNIZ, INFECT, THERAP(22100); TOXICOL-GENL/EXP STUDS, METHS(22-  
501); IN VITRO STUDS-CELLULR, SUBCELL(32600)

Biosystematic Codes: CANIDAE(85765); FELIDAE(85770);  
HOMINIDAE(85215)

50019677

WHATS IN POLY VINYL CHLORIDE LETTER/  
LITTLE K

LANCET (7563). 351-352. 1968. Coden: LANCA

Concept Codes: BIOCHEM METH-GENERAL(10050); BIOCHEM  
STUD-GENERAL(10060); TOXICOL-GENL/EXP STUDS, METHS(+22501);  
TOXICOL-PHARMACOLOGICAL(22504)

50018707

WHATS IN POLY VINYL CHLORIDE RABBIT ENDO TRACHEAL EQUIPMENT/  
ANON

LANCET (7558). 34. 1968. Coden: LANCA

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-GENERAL  
STUDIES(10502); EXTERN EFF-PRESSURE(10606); ANATOMY/HISTOL-SU-  
RGERY(11105); METABOLISM-GENL STUD, METAB PATHW(13002);  
RESPIRATORY SYST-GENL STUD, METHS(+16001); MUSCLE SYST-GENL  
STUDS, METHS(17501); TOXICOL-GENL/EXP STUDS, METHS(22501)

Biosystematic Codes: LEPORIDAE(86040)

50002689

INST POLAROGRAPHIC DETERMINATION OF CADMIUM IN POLY VINYL  
CHLORIDE FILM FOR BLOOD BAG/

SATO H; SHIMAMINE M

BULL NAT INST HYG SCI TOKYO (85). 125-127. 1967. Coden:  
BNHYA

Concept Codes: MINERALS(10069); BIOPHYS-GENERAL BIOPHYS  
TECH(10504); MINERALS(13010); BLOOD/BODY FLDS-GENL  
STUDS, METHS(15001); TOXICOL-GENL/EXP STUDS, METHS(+22501)

69077886

WHATS IN POLY VINYL CHLORIDE

RENTON P H

LANCET (7565). 1968 462 Coden: LANCA

Descriptors: TUBING

Concept Codes: BIOCHEM STUD-GENERAL(10060); TOXICOL-GENL/EXP  
STUDS, METHS(+22501)

69076562

WHATS IN POLY VINYL CHLORIDE

PARSONS D S; PRICHARD J S

LANCET 7560. 1968 171 Coden: LANCA

Descriptors: LETTER RANA-TEMPORARIA EXTRACORPOREAL  
CIRCULATION IN-VITRO PERFUSION MUSCLE

Concept Codes: BIOCHEM STUD-GENERAL(10060); PHYSIOLOGY-INST-  
RUMENTATION(12004); CARDIOVASC SYST-GENL STUDS, METHS(14501);  
CARDIOVASC SYST-PHYSIOL, BIOCHEM(14504); MUSCLE SYST-PHYSIOL, B-  
IOCHEM(17504); TOXICOL-GENL/EXP STUDS, METHS(+22501); IN VITRO  
STUDS-CELLULR, SUBCELL(32600)

Biosystematic Codes: SALIENTIA(85306)

69066407

INVESTIGATIONS INTO THE EFFECTS OF MICRO ORGANISMS ON POLY  
VINYL CHLORIDE PRESSURE SENSITIVE ADHESIVE TAPE AND ITS  
CONSTITUENTS

PANKHURST E S; DAVIES M J

WALTERS, A. HARRY AND JOHN J. ELPHICK (EDITED BY).  
BIODETERIORATION OF MATERIALS; MICROBIOLOGICAL AND ALLIED  
ASPECTS. X + 740P. ILLUS. ELSEVIER PUBLISHING CO.: NEW YORK.  
N.Y. U.S.A. 1968 302-316 Coden: 00084

Descriptors: PSEUDOMONAS SERRATIA BACILLUS YEAST FUNGUS

Concept Codes: GENERAL LABORATORY APPARATUS(01006);  
BACTERIA-PHYSIOLOGY, BIOCHEMISTRY(31000); FOOD/INDUS MICRO-BIO-  
DEGRAD, DETER(+39006)

Biosystematic Codes: EUBACTERIALES(07200); PSEUDOMONADALES(-  
08200); FUNGI-UNSPECIFIED(15000)

## R&amp;S 138203

69066391

A RAPID METHOD FOR DETERMINING DEGRADATION OF PLASTICIZED  
POLY VINYL CHLORIDE BY MICROORGANISMS

CAVETT J J; WOODROW M N

WALTERS, A. HARRY AND JOHN J. ELPHICK (EDITED BY).  
BIODETERIORATION OF MATERIALS; MICROBIOLOGICAL AND ALLIED  
ASPECTS. X + 740P. ILLUS. ELSEVIER PUBLISHING CO.: NEW YORK,  
N.Y. U.S.A. 1968 162-169 Coden: 00084

Descriptors: MOLDS PSEUDOMONAS-AERUGINOSA

Concept Codes: GENERAL LABORATORY APPARATUS(01006); BIOCHEM  
METH-GENERAL(10050); BIOCHEM STUD-GENERAL(10060); BACTERIA-PH-  
YSIOLOGY,BIOCHEMISTRY(31000); FOOD/INDUS MICRO-BIODEGRAD,DETE-  
R(+39006)Biosystematic Codes: PSEUDOMONADALES(08200); FUNGI-UNSPECIF-  
IED(15000)

69066390

LABORATORY AND SERVICE TESTS FOR POLY VINYL CHLORIDE

YEAGER C C

WALTERS, A. HARRY AND JOHN J. ELPHICK (EDITED BY).  
BIODETERIORATION OF MATERIALS; MICROBIOLOGICAL AND ALLIED  
ASPECTS. X + 740P. ILLUS. ELSEVIER PUBLISHING CO.: NEW YORK,  
N.Y. U.S.A. 1968 151-161 Coden: 00084

Descriptors: PROTECTION FROM FUNGAL BACTERIAL ATTACK

Concept Codes: GENERAL LABORATORY APPARATUS(01006); BIOCHEM  
STUD-GENERAL(10060); BACTERIA-PHYSIOLOGY,BIOCHEMISTRY(31000);  
FOOD/INDUS MICRO-BIODEGRAD,DETER(+39006); PLANT PHYSIOL-GENL,-  
MISCELL STUDS(51526)Biosystematic Codes: BACTERIA-UNSPECIFIED(06000); FUNGI-UNS-  
PECIFIED(15000)

69064591

INST GLASS AND POLY VINYL CHLORIDE BOTTLES THEIR INFLUENCE  
ON THE BITTER SUBSTANCES IN BEER

MARTIN S; BELLANATO J; GALINDO J G; MIGUEL J; RAMOS B

BREW DIG 44 (7). 1969 78 Coden: BRDGA

Descriptors: ABSTRACT SUN LIGHT RADIATION TASTE

Concept Codes: EXTERN EFF-LIGHT,DARKNESS(10604); FOOD  
TECH-MALTS,BREWS,FERMENTATN(+13512); SENSE ORGANS-GENL  
STUDS,METHS(20001)

69058426

EVALUATION AND PRODUCTION OF ENZ ESTERASES ON PLASTICIZER  
SUBSTRATES BY FUNGAL SPECIES

WILLIAMS P L; KANZIG J L; KLAUSMEIER R E

DEVELOP IND MICROBIOL SEE BOOK LIST 177-182 Coden: DIMCA

Descriptors: POLY VINYL CHLORIDE MICROBIAL DETERIORATION  
ASPERGILLUS-TERREUSConcept Codes: BIOCHEM STUD-GENERAL(10060); BIOCHEM  
TUD-PROTEINS,PEPTIDES,AMINO ACD(10064); ENZYMES-PHYSIOLOGICAL  
STUDIES(10808); METABOLISM-GENL STUD,METAB PATHW(13002);  
FOOD/INDUS MICRO-BIODEGRAD,DETER(+39006); PLANT PHYSIOL-ENZYM-  
ES(51518)

Biosystematic Codes: DEUTEROMYCETES(15500)

69048762

CHOICE OF POLY VINYL CHLORIDE FABRICS FOR SHADING PLANTS  
MAPLE-D INST PYRHELIOGRAPHS/

POST L J

CAN DEP FOREST RURAL DEVELOP BI-MON RES NOTES 25 (1). 1969  
5-6 Coden: CBRNAConcept Codes: GENERAL FIELD METHODS(01008);  
ECOLOGY-BIOCLIMATOL,BIOMETEOROL(07504); BIOPHYS-GENERAL BIOPH-  
YS TECH(10504); EXTERN EFF-LIGHT,DARKNESS(10604); PLANT  
PHYSIOL-LIGHT,RADIATN EFFS(51516); PLANT PHYSIOL-APPARATUS,ME-  
THODS(51524); FORESTRY AND FOREST PRODUCTS(+53500)

Biosystematic Codes: ACERACEAE(25510)

69048438

A STUDY OF VIBRATION POTENTIALS IN COLLOIDAL AND CELL  
SUSPENSIONS THESIS ABSTRACT BOVINE WHOLE BLOOD SERUM ALBUMIN  
MICELLE FORMING SODIUM LAURYL SULFATE POLY VINYL CHLORIDE  
COLLOIDAL SILICA ULTRASONIC WAVES ELECTRICAL IMPEDANCE/

BEARD R B

IEEE TRANS BIO-MED ENG 16 (1). 1969 107 Coden: IEBEA

Concept Codes: CYTOLOGY/CYTOCHEM-ANIMAL(02506); BIOCHEM  
STUD-GENERAL(10060); BIOCHEM STUD-PROTEINS,PEPTIDES,AMINO  
ACD(10064); BIOPHYS-GENERAL STUDIES(+10502); BIOPHYS-BIOENGIN-  
EERING(10511); EXTERN EFF-SONICS,ULTRASONICS(10608); BLOOD/BO-  
DY FLDS-BLOOD,LYMPH STUD(15002); BLOOD/BODY FLDS-BLOOD CELL  
STUDS(15004)

Biosystematic Codes: BOVIDAE(85715)

69044641

BLOOD COMPATIBILITY OF SOME POLYMERIC AND NONPOLYMERIC  
MATERIALS ABSTRACT HEVEA RUBBER CARBON GRAPHITE POLY VINYL  
CHLORIDE CHLORINATED BALATA RUBBER POLY HYDROXYPROPYL  
METHACRYLATE/

MASON R G; IKENBERRY L D; KEARNEY J

FED PROC 28 (2). 1969 441 Coden: FEPR

Concept Codes: BIOCHEM STUD-GENERAL(10060); BIOPHYS-MOLECUL  
PROP.MACROMOLEC(10506); BLOOD/BODY FLDS-BLOOD;LYMPH STUD(1500-  
2); PHARMACOL-BLOOD,HEMATO AGENTS(+22008)

Biosystematic Codes: CHORDATA-UNSPECIFIED(85000)

69004322

THE INFLUENCE OF SMOKE FROM THE COMBUSTION OF POLY VINYL  
CHLORIDE INSULATION ON NORTHERN HARDWOOD FOREST SPECIES  
ABSTRACT PHYTO TOXICITY/

WOOD F A

PHYTOPATHOLOGY 58 (8). 1968 1073 Coden: PHYTA

Concept Codes: TOXICOL-GENL/EXP STUDS,METHS(22501); ENVIRON  
HEALTH-AIR,WATR,SL POLLN(37015); PHYTOPATHOL-NONPARASITIC  
DISEASE(+54512)

Biosystematic Codes: ANGIOSPERMAE-UNSPECIFIED(25200)

Print 5/5/1-3

DIALOG File55: BIOSIS Previews - 1969 thru 1976 (Copr. Biological Abstracts Inc.) (Item 1 of 3) User 3614 25Jan83

101

56069214

## A NEW METHOD FOR THE ANALYSIS OF ULTRA MICRO CONSTITUENTS OF AIR

ANGERER J; HAAG A; SZADKOWSKI D; LEHNERT G

Z KLIN CHEM KLIN BIOCHEM 11 (3). 1973 133-134. Coden: ZKCKA

Descriptors: GAS CHROMATOGRAPHY MASS SPECTROMETRY CHLOROFORM 1 2 DI CHLOROETHYLENE TETRA CHLOROETHANE TOLUOL XYLOL MESITYLENE N DECANE QUINOLINE

Concept Codes: BIOCHEM STUD-GENERAL(+10060); BIOPHYS-GENERAL BIOPHYS TECH(10504); MOVEMENT(12100); TOXICOL-ENVIRONMNTL,IND- USTR(+22506); ENVIRON HEALTH-AIR,WATR,SL POLLN(+37015)

STUD,METHS(16001); RESPIRATORY SYST-PHYSIOL,BIOCHEM(16004); NERVOUS SYST-GENL STUDS,METHS(20501); NERVOUS SYST-PHYSIOL,BI-OCHEM(20504); PHARMACOL-CARDIOVASC SYST(+22010); PHARMACOL-NE-UROPHARMACOLOGY(22024)

Biosystematic Codes: HOMINIDAE(86215)

73068418

## MEASUREMENT OF URINARY HUMAN PITUITARY LUTEINIZING HORMONE AT OUR GYNECOLOGICAL CLINIC

MIZUTANI S

ACTA OBSTET GYNAECOL JAP (ENGL ED) 19 (1). 1972 (RECD 1973) 71 Coden: AOGLA

Descriptors: ABSTRACT CLOMIPHENE ESTROGEN BIS P ACETOXY PHENYL 1 2 DI PHENYL 2 CHLOROETHYLENE CITRATE METAB-DRUGS AMENORRHEA TURNER SYNDROME KLINEFELTER SYNDROME CASTRATION RADIO IMMUNOASSAY AGE

Concept Codes: GENETICS/CYTOGENET-HUMAN(03508); RADIATION BIOL-RADTN,ISOTOP TECH(06504); CLIN BIOCHEM-GENL STUDIES(+100-06); BIOCHEM METH-PROTNS,PEPTDS,AM AC(10054); BIOCHEM METH-CARBOHYDRATES(10058); BIOCHEM STUD-PROTEINS,PEPTIDES,AMI-NO ACD(10064); BIOCHEM STUD-STEROLS,STERIODS(10067); BIOCHEM STUD-CARBOHYDR.(10068); PATHOLOGY-DIAGNOSTIC(12504); PATHOLOG- Y-THERAPY(12512); METABOLISM-CARBOHYDRATES(13004); METABOLISM-PROTNS,PEPTDS,AM ACDS(+13012); URIN SYST/EXT SECR-PHYSL,BIOC-HEM(+15504); REPRODUCT SYST-PATHOLOGY(+16506); ENDOCRINE SYST-GONADS,PLACENTA(+17006); ENDOCRINE SYST-PITUITARY(+17014); PHARMACOL-DRUG METAB,METAB STIMU(22003); PHARMACOL-CLINICAL PHARMACOL(22005); PHARMACOL-ENDOCRINE SYST(+22016); PHARMACOL-REPRODUCT SYST,IMPLANT(+22028); GERONTOLOGY(24500); DEVELOPM-NTL BIOL-DESCRIP TERATOL(25552); IMMUNOL/IMMUNOCHEM-GEN METH(34502)

Biosystematic Codes: HOMINIDAE(86215)

50041926

## EVALUATION OF THE EFFECT OF ANESTHETIC TECHNIQUES ON SURVIVAL AFTER INTRA CRANIAL SURGERY FOR RUPTURED ANEURYSMS HALOTHANE CENT DEPRESS TRI CHLORO ETHYLENE CENT ANEURYSMS HALOTHANE CENT DEPRESS TRI CHLOROETHYLENE CENT DEPRESS HUMAN/

MARSHALL B M; LOUGHEED W M; GORDON R A

CAN ANAESTH SOC J 15 (3). 227-231. 1968. Coden: CANJA

Concept Codes: BIOCHEM STUD-GENERAL(10060); ANATOMY/HISTOL--SURGERY(11105); CARDIOVASC SYST-PHYSIOL,BIOCHEM(14504); CARDIOVASC SYST-RED VESS PATHOL(14508); RESPIRATORY SYST-GENL