

- 258 SI - CA/102/118996G
 CC - CA/160006
 AU - Haile CL ; Shan YA ; Malone LS ; Northcutt RV
 AD - Midwest Res. Inst., Kansas City
 TI - Development of methods for the analysis of purgeable organic priority pollutants in municipal and industrial wastewater treatment sludges
 SO - Adv. Identif. Anal. Org. Pollut. Water; VOL 2,, 1981,763-91
 PT - MONOGRAPH
 CY - USA
 LA - ENG
 CD - 53CYA
 AB - CBAC COPYRIGHT: CHEM ABS Org pollutant detn wastewater sludge Purge trap org pollutant detn Gas chromatog purge trap analysis Mass spectrometry purge trap analysis;Wastewater treatment Anal. of, stirred bottom frit tube in purge-and-trap methods for Sludge
 RN - 56-23-5; 67-66-3; 71-43-2; 71-55-6; 75-01-4; 75-35-4; 79-01-6; 100-41-4; 107-06-2; 108-90-7; 127-18-4
 EM - 8505
- 259 SI - CA/099/058099Z
 CC - CA/159002
 CN - Enviro Control, Inc.
 AD - Rockville
 TI - Assessment of engineering control monitoring equipment. Volume I
 SO - Report; ISS NIOSH-210-79-0011-VOL-1; Order No. PB83-152629,, 1981,157 pp.
 PT - TECHNICAL REPORT
 CY - USA
 LA - ENG
 CD - D8REP
 AB - CBAC COPYRIGHT: CHEM ABS Monitoring system air pollution control Phosgene pollution control monitoring evaluation Vinyl chloride pollution control monitoring Cotton dust pollution control monitoring Carbon monoxide pollution control monitoring;Air pollution Control of, monitoring systems for, evaluation of;Cotton Dust of, air pollution by, monitoring systems for control of, evaluation of
 RN - 75-01-4; 75-44-5; 630-08-0
 EM - 8309

- 260 SI - CA/098/221040P
CC - CA/159002
AU - Himi Y
AD - Kanagawa Prefect. Environ. Cent., Kanagawaken
TI - Survey of chemical substances in the atmosphere
SO - Kanagawa-ken Taiki Osen Chosa Kenkyu Hokoku; VOL 23,, 1981,163-6
PT - JOURNAL ARTICLE
CY - Japan
LA - JPN
CD - KTOHD
AB - CBAC COPYRIGHT: CHEM ABS Chlorohydrocarbon atm Kanagawa Japan;Air pollution By chlorohydrocarbon, in Kanagawa Prefecture, Japan
RN - 56-23-5; 67-66-3; 71-55-6; 74-87-3; 75-00-3; 75-01-4; 75-09-2; 79-01-6; 127-18-4
EM - 8307
- 261 SI - CA/098/094785H
CC - CA/159001
AU - De Lorenzo R
AD - Serv. Ecol., SIR/CI, Sassari
TI - Mechanographic elaboration of data on ambient vinyl chloride monomers obtained using automatic gas chromatography
SO - Ann. Ist. Super. Sanita; VOL 17, ISS 3, 1981,515-20
PT - JOURNAL ARTICLE
CY - Italy
LA - ITA
CD - AISSA
IS - 0021-2571
AB - CBAC COPYRIGHT: CHEM ABS Vinyl chloride detn air workplace;Air analysis Vinyl chloride monomer detn. in, for occupational hazard est.
RN - 75-01-4
EM - 8304
- 262 SI - CA/098/047992P
CC - CA/104000
AU - Ungvary G
TI - Toxicologic characterization of vinyl chloride. Data for maximum allowable concentration
SO - Munkavedelem; VOL 27, ISS 10-12, 1981,34-50
PT - JOURNAL ARTICLE
CY - Hung.
LA - HUN
CD - MUNKA
IS - 0027-3619
AB - CBAC COPYRIGHT: CHEM ABS A review with many refs. on the toxicity of vinyl chloride [75-01-4] to humans and lab. animals, including acute, subacute, chronic, and fetal toxicity. Mutagenicity and carcinogenic effects are discussed. The proposed max. allowable concn. in air is 10 mg/m3.
RN - 75-01-4

- CY - Czech.
ZP - 100 42/10
LA - ENG
CD - 48RKA
AB - CBAC COPYRIGHT: CHEM ABS Mutagen monitoring peripheral lymphocyte aberration Plastic worker mutagen monitoring; Air analysis Mutagen monitoring in, by peripheral lymphocyte aberration; Lymphocyte Peripheral, aberrations in, mutagen occupational exposure monitoring in relation to
RN - 75-01-4; 100-42-5; 106-89-8
EM - 8301
- 266 SI - CA/097/139784E
CC - CA/104003
AU - Ilichkin VS ; Butin VN ; Gusev IV ; Podosinnikov SE
TI - Toxic effects of combustion products of polymer materials
SO - Bezopasn. Lyudei pri Pozharakh, M.; 1981,53-61
PT - JOURNAL ARTICLE
CY - USSR
LA - RUS
CD - D3RAP
AB - CBAC COPYRIGHT: CHEM ABS Title only translated. Polymer combustion product toxicity
RN - 75-01-4; 630-08-0
EM - 8211
- 267 SI - CA/097/121743F
CC - CA/104006
AU - Barbin A ; Bartsch H ; Lecomte P ; Radman M
AD - Int. Agency Res. Cancer, Lyon
TI - On the possible role of the miscoding DNA lesions, 1,N6-ethenoadenine and 3,N4-ethenocytosine, in vinyl chloride-induced mutagenesis and carcinogenesis
SO - NATO Adv. Study Inst. Ser., Ser. A; VOL 40, ISS Chromosome Damage Repair, 1981,461-7
PT - JOURNAL ARTICLE
CY - Fr.
ZP - F-69372/2
LA - ENG
CD - NASSD
IS - 0161-0449
AB - CBAC COPYRIGHT: CHEM ABS Chloroacetaldehyde [107-20-0] And chloroethylene oxide (CEO) [7763-77-1], 2 reactive metabolites of vinyl chloride [75-01-4], were used to introduce increasing amts. of 1,N6-ethenoadenine (epsilonA)(I) [13875-63-3] and 3,N4-ethenocytosine (epsilonC)(II) [55662-66-3] residues in poly(dA) [25191-20-2] and poly(dC) [25609-92-1], resp. The modified polynucleotides were assayed with Escherichia coli DNA polymerase I for their template activity and misincorporation. The miscoding properties obsd. of epsilonA and epsilonC may explain the mutagenic effects reported for vinyl chloride and its metabolites; these lesions may also represent one of the initial steps in vinyl chloride- or CEO-induced carcinogenesis.

- RN - 75-01-4; 107-20-0; 7763-77-1; 13875-63-3; 25191-20-2; 25609-92-1;
55662-66-3
EM - 8211
- 268 SI - CA/097/132757Q
CC - CA/159005
AU - Markel HL Jr ; Slovin D
AD - Div. Surveill., Hazard Eval. Field Stud., Natl. Inst. Occup. Saf.
Health, Cincinnati
TI - Health hazard evaluation report no. HHE-79-158-819, Morrilton
Plastics Corporation, Morrilton, Arkansas
SO - Report; ISS HHE-79-158-819; Order No. PB82-189788,, 1981, 18 pp.
PT - TECHNICAL REPORT
CY - USA
LA - ENG
CD - D8REP
AB - CBAC COPYRIGHT: CHEM ABS Toxic compd exposure plastics
manuf;Air pollution By toxic chems., occupational exposure to,
health hazrds of, to plastic manufg. workers;Chemicals Air
pollution by, occupational exposure to, health hazard of, to
plastic manufg. workers Hazardous;Eye Irritation of, from toxic
chem. occupational exposure, in plastic manuf.;Fatigue From toxic
chem. occupational exposure, in plastics manuf. Biological;Glues
Air pollution by, occupational exposure to, health hazard of, to
plastic manufg. workers;Headache Form toxic chem. occupational
exposure, in pulse manuf.;Health hazard From exposure to plastic
fabrication Occupational;Plastics Fabrication of, occupational
exposure to, health hazard in relation to;Solvents Air pollution
by, occupational exposure to, health hazard of, to plastic
manufg. workers
RN - 67-64-1; 71-55-6; 75-01-4; 75-09-2; 78-93-3; 108-88-3; 108-95-2;
109-99-9
EM - 8211
- 269 SI - CA/097/132675M
CC - CA/159004
AU - Harris GE ; Tichenor BA
AD - Radian Corp., Austin
TI - Frequency of fugitive emissions in synthetic organic chemical
plants
SO - Proc., Annu. Meet. - Air Pollut. Control Assoc.; VOL 74th, ISS
Vol. 3, 1981, Paper 81-41.5, 8 pp.
PT - JOURNAL ARTICLE
CY - USA
LA - ENG
CD - PRAPA
IS - 0099-4081
AB - CBAC COPYRIGHT: CHEM ABS Fugitive emission org chem manufg
Waste gas fugitive chem manufg;Organic compounds Fugitive
emissions in manuf. of;Waste gases Fugitive emissions, from org.
chem. manufg.
RN - 50-00-0; 67-64-1; 71-55-6; 74-85-1; 75-01-4; 75-07-0; 78-93-3;
79-01-6; 80-62-6; 98-82-8; 107-06-2; 107-13-1; 108-05-4;

- 108-95-2; 124-04-9; 127-18-4
EM - 8211
- 270 SI - CA/097/114653Y
CC - CA/159006
AU - Douglas-Hamilton DH ; Slater RC
AD - Avco Everett Res. Lab. Inc., Everett
TI - Elimination by electron beam irradiation of trace contaminants in gas streams
SO - Symp. Proc. - Int. Symp. Plasma Chem., 5th; VOL 2,, 1981,726-31
PT - MONOGRAPH
CY - USA
ZP - 02149
LA - ENG
CD - 48JDA
AB - CBAC COPYRIGHT: CHEM ABS Electron beam irradsn gas contaminant;Electron beam Irradn. by, of gases, for trace contaminant removal;Gases Purifn. of, by electron beam irradsn.
RN - 74-93-1; 75-01-4
EM - 8210
- 271 SI - CA/097/060674K
CC - CA/161003
AU - Krasner SW ; Hwang CJ ; Cohen RS ; McGuire MJ
AD - Matrop. Water District South. California, La Verne
TI - Development of a volatile organic analysis technique for the Orange-Los Angeles County reuse study
SO - Chem. Water Reuse; VOL 2,, 1981,17-31
PT - MONOGRAPH
CY - USA
LA - ENG
CD - 46LSA
AB - CBAC COPYRIGHT: CHEM ABS Volatile org detn water reuse;Volatile substances Org., detn. of, in recharge water, gas chromatog. and mass spectroscopy in
RN - 56-23-5; 67-66-3; 71-43-2; 71-55-6; 74-83-9; 74-97-5; 75-00-3; 75-01-4; 75-09-2; 75-25-2; 75-27-4; 75-34-3; 75-35-4; 75-69-4; 78-87-5; 79-00-5; 79-01-6; 79-34-5; 95-50-1; 96-12-8; 100-41-4; 106-46-7; 107-06-2; 108-88-3; 108-90-7; 110-56-5; 124-48-1; 127-18-4; 156-60-5; 541-73-1; 3017-95-6; 7732-18-5; 10061-01-5; 10061-02-6
EM - 8209
- 272 SI - CA/097/034349P
CC - CA/104003
AU - Chyba A
AD - Zakl. Hig. Komunaln., Panstw. Zakl. Hig., Warsaw
TI - Study of the toxicity of a mixture of vinyl chloride and phenol in air
SO - Roczn. Panstw. Zakl. Hig.; VOL 32, ISS 4, 1981,357-61
PT - JOURNAL ARTICLE
CY - Pol.
LA - POL

VCM

- CD - RPZHA
IS - 0035-7715
AB - CBAC COPYRIGHT: CHEM ABS Mixing 1 mg vinyl chloride [75-01-4] with 1 mg phenol [108-95-2]/m3 antagonized their effects on the nervous system of rats in a 7-mo continuous inhalation test. The mixt. did not effect the learning ability which was impaired by 1 mg/m3 of either component sep. Vinyl chloride alone also extended the blood clotting time.
RN - 75-01-4; 108-95-2
EM - 8208
- 273 SI - CA/097/001601M
CC - CA/104000
AU - Kilbey BJ
AD - Dep. Genet., Univ. Edinburg, Edinburgh
TI - Comparative mutagenicity of aflatoxin B1 and vinyl chloride
SO - Environ. Sci. Res.; VOL 24, ISS Comp. Chem. Mutagen., 1981,857-81
PT - JOURNAL ARTICLE
CY - UK
LA - ENG
CD - EVSRB
IS - 0090-0427
AB - CBAC COPYRIGHT: CHEM ABS A review with 75 refs. on the comparative mutagenicity of aflatoxin B1 (I) [1162-65-8] and vinyl chloride [75-01-4].
RN - 75-01-4; 1162-65-8
EM - 8207
- 274 SI - CA/096/204558E
CC - CA/159000
AU - Pers T ; Piszczewska E
AD - Inst. Ciekkiej Synt. Org. "Blachownia", Kedzierzyn
TI - Methods for the removal of vinyl chloride from waste gases during its synthesis and processing
SO - Chemik; VOL 34, ISS 11-12, 1981,241-3
PT - JOURNAL ARTICLE
CY - Pol.
LA - POL
CD - CHGLA
IS - 0009-2886
AB - CBAC COPYRIGHT: CHEM ABS Review vinyl chloride removal fume Waste gas vinyl chloride review;Waste gases Removal of vinyl chloride from
RN - 75-01-4
EM - 8207

- 275 SI - CA/096/175416Z
CC - CA/104001
AU - Tamburro CH ; Greenberg R
AD - Sch. Med., Univ. Louisville, Louisville
TI - Effectiveness of federally required medical laboratory screening
in the detection of chemical liver injury
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,117-22
PT - JOURNAL ARTICLE
CY - USA
ZP - 40201
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS The gamma-glutamyl transpeptidase
[9046-27-9] test provides the highest pos. predicted value as a
screening test for identifying individuals with all types of
medical diseases followed by the indocyanine green [3599-32-4]
clearance, aspartic aminotransferase [9000-97-9], alanine
aminotransferase [9000-86-6], radioisotopic liver spleen scans,
alk. phosphatase [9001-78-9], and bilirubin [635-65-4]. In the
identification of asymptomatic liver disease, the gamma-glutamyl
transpeptidase had the least specificity whereas the alk.
phosphatase the highest. The indocyanine green clearance
provided the best combination of pos. predictive value and sum of
specificity and sensitivity.
RN - 75-01-4; 635-65-4; 3599-32-4; 9000-86-6; 9000-97-9; 9001-78-9;
9046-27-9
EM - 8206
- 276 SI - CA/096/175389T
CC - CA/104000
AU - Nauman CH ; Grant WF
AD - Biol. Dep., Brookhaven Natl. Lab., Upton
TI - Mutagenicity of ethyl methanesulfonate, mitomycin C, and vinyl
chloride in the Tradescantia test systems
SO - Environ. Sci. Res.; VOL 24, ISS Comp. Chem. Mutagen., 1981,329-38
PT - JOURNAL ARTICLE
CY - USA
ZP - 11973
LA - ENG
CD - EVSRB
IS - 0090-0427
AB - CBAC COPYRIGHT: CHEM ABS A review with 27 refs. on the
mutagenicity of Et methanesulfonate [62-50-0], mitomycin C
[50-07-7], and vinyl chloride [75-01-4] in the Tradescantia test
systems.
RN - 50-07-7; 62-50-0; 75-01-4
EM - 8206

- 277 SI - CA/096/137689H
CC - CA/104006
AU - Fabricant JD ; Legator MS
AD - Med. Branch, Univ. Texas, Galveston
TI - Mutagenicity studies of vinyl chloride
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,189-93
PT - JOURNAL ARTICLE
CY - USA
ZP - 77550
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS Mutagenicity studies in man and test organisms clearly demonstrate pos. mutagenic activity of vinyl chloride (VC) [75-01-4]. Using a variety of in vitro procedures covering eukaryotes and prokaryotes, pos. effects were found. Cytogenetic in vivo studies in animals and humans indicate not only somatic mutations, but also germinal effects with VC.
RN - 75-01-4
EM - 8205
- 278 SI - CA/096/137688G
CC - CA/104006
AU - John JA ; Smith FA ; Schwetz BA
AD - Toxicol. Res. Lab., Dow Chem. U.S.A., Midland
TI - Vinyl chloride: inhalation teratology study in mice, rats and rabbits
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,171-7
PT - JOURNAL ARTICLE
CY - USA
ZP - 48640
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS The effects of inhaled vinyl chloride (VC) [75-01-4] on mouse, rat, and rabbit embryonal and fetal development were studied. Groups of pregnant mice, rats, and white rabbits were exposed to 500 ppm VC for 7 h daily during the period of major organogenesis. Subsequently, other groups of mice were similarly exposed to 50 ppm VC, and rats and rabbits were exposed to 2500 ppm. While maternal toxicity was obsd., exposure to VC did not cause significant embryonal or fetal toxicity and was not teratogenic in any of the 3 species. Simultaneous exposure of some of the pregnant animals to VC by inhalation plus 15% EtOH [64-17-5] in the drinking water resulted in toxic effects greater than those assocd. with exposure to VC alone in the 3 species. The fetal effects obsd. were similar to those reported for these 3 species following administration of EtOH without VC exposure.
RN - 64-17-5; 75-01-4
EM - 8205

- 280 SI - CA/096/137685D
CC - CA/104006
AU - Radike MJ ; Stemmer KL ; Bingham E
AD - Med. Cent., Univ. Cincinnati, Cincinnati
TI - Effect of ethanol on vinyl chloride carcinogenesis
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,59-62
PT - JOURNAL ARTICLE
CY - USA
ZP - 45267
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS Four treatment groups (80 male rats/group) were used in a 2 .times. 2 factorial design: inhalation of 600 ppm vinyl chloride (VC) [75-01-4] 4 h/day, 5 days/wk for 1 yr; VC and ingestion of 5% EtOH [64-17-5] in water (vol./vol.); filtered air and EtOH; filtered air. Ingestion of EtOH was begun 4 wk prior to inhalation of VC and continued for

VCM

life or termination of the study at 2.5 yr from the 1st VC exposure. In the model system, EtOH potentiated the carcinogenic response to VC in the liver and produced an excess of neoplasms in animals receiving EtOH alone. Inhalation of VC induced angiosarcoma of the liver in 23% of the exposed animals; EtOH in addn. to VC inhalation increased the incidence to 50%. Concomitant administration of VC and EtOH also produced an excess of hepatocellular carcinoma and lymphosarcoma. EtOH with or without VC had a strong tumorigenic effect on the endocrine system. Thus, EtOH is a cocarcinogen in relation to the carcinogen VC.

RN - 64-17-5; 75-01-4
EM - 8205

281 SI - CA/096/137684C
CC - CA/104006
AU - Groth DH ; Coate WB ; Ulland BM ; Hornung RW
AD - Div. Biomed. Behav. Sci., Natl. Inst. Occup. Saf. Health, Bethesda
TI - Effects of aging on the induction of angiosarcoma
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,53-7
PT - JOURNAL ARTICLE
CY - USA
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS Adult albino rats of 4 different ages

(6, 18, 32, and 52 wk) were exposed to 940 ppm vinyl chloride [75-01-4] by inhalation for 24 wk, 5 days/wk, for 7 h/day. In each age group, there were 110-128 males and the same no. of females. The similarly housed control group, which was not exposed to vinyl chloride, consisted of the same no. of males and females in each age group. All animals that died spontaneously, or were sacrificed moribund, or were killed at scheduled times (3, 6, and 9 mo after initial exposure) were autopsied. All organs were examd. grossly, and several tissues from each animal were examd. microscopically. The older the rats were when they were exposed, the greater the incidence of angiosarcomas. The incidences of angiosarcomas in the 4 age groups (from youngest to oldest) in the exposed males in the nonscheduled sacrifice groups were: 0/37 (0%); 0/44 (0%); 3/45 (6.7%); and 13/55 (24%). Similarly, for the females, these incidences were: 2/38 (5.3%); 7/47 (15%); 23/49 (47%); and 11/54 (20%). Most of the angiosarcomas were highly anaplastic, primary tumors in the livers that metastasized to the lungs. Only 1 angiosarcoma was seen in all the control rats; that occurred in s.c. tissue. Thus, older adult animals and females are more susceptible to the angiosarcoma-inducing effects of vinyl chloride than young adult animals and males, resp.

RN - 75-01-4
EM - 8205

- 282 SI - CA/096/137683B
CC - CA/104006
AU - Suzuki Y
AD - Mt. Sinai Sch. Med., City Univ. New York, New York
TI - Neoplastic and nonneoplastic effects of vinyl chloride in mouse lung
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,31-52
PT - JOURNAL ARTICLE
CY - USA
ZP - 10029
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS Neoplastic effects of vinyl chloride (VC) [75-01-4] were studied in lungs of 27 mice exposed at 2500 and 6000 ppm for 5 and 6 mo (large doses and long-term exposure). The neoplastic cells were transformed from type II alveolar epithelium via its hyperplastic form. Nonneoplastic effects of the chem. were also studied in the 27 mice. Major light microscopic alterations obsd. were proliferation and hypertrophy of the terminal bronchiolar cells, consisting of ciliated and Clara cells, hypersecretion of the epithelial mucin in the goblet cells of both the bronchial and the proximal bronchiolar epithelium, hyperplasia of alveolar epithelium, mobilization of alveolar macrophages, and occasional presence of peribronchial or bronchiolar chronic inflammation. Submicroscopic changes of pulmonary alveoli were represented by focal thickening of the basement membrane, multiple foci of hyperplastic type II cell (the precondition of the alveologenic tumor), active discharge of osmiophilic lamellar bodies from the type II cell and phagocytosis of the bodies by macrophages, appearance of cholesterol crystalloids in the macrophages, degeneration of alveolar septal cells, and occasional appearance of a large nucleus with swelling of the capillary endothelium. The neoplastic effect of vinyl chloride of smaller doses (100, 10, 1 and 0 (control) ppm) and shorter exposure (4 wk) was studied in lungs of 120 mice. A dose-response relation was considered in the incidence of the alveologenic tumor prodn. of VC. Thus, mouse lung is an extremely sensitive indicator of the oncogenicity of VC.
- RN - 75-01-4
EM - 8205
- 283 SI - CA/096/137682A
CC - CA/104006
AU - Maltoni C ; Lefemine G ; Ciliberti A ; Cotti G ; Carretti D
AD - Inst. Oncol., Bologna
TI - Carcinogenicity bioassays of vinyl chloride monomer: a model of risk assessment on an experimental basis
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,3-29
PT - JOURNAL ARTICLE
CY - Italy

LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS Vinyl chloride (VC) [75-01-4], administered by different routes, concns., and schedules of treatment to animals (.apprx.7000) of different species, strains, sex, and age, were studied. The neoplastic effects of the monomer were also detected at low doses. The exptl. and biol. factors greatly affect the neoplastic response to VC. Long-term carcinogenicity bioassays are a unique tool for the identification and quantification of environmental and occupational risks. Precise and highly standardized exptl. procedures are needed to obtain data for risk assessment.

RN - 75-01-4
EM - 8205

284 SI - CA/096/137302B
CC - CA/104003
AU - Brenner EA ; Manchester KL ; Webster I ; Cantrell AC
AD - Natl. Cent. Occup. Health, Johannesburg
TI - Attempts to demonstrate short-term metabolic effects of vinyl chloride in normal rat liver
SO - Am. J. Ind. Med.; VOL 2, ISS 2, 1981,153-9
PT - JOURNAL ARTICLE
CY - S. Afr.
ZP - 2000
LA - ENG
CD - AJIMD
IS - 0271-3586
AB - CBAC COPYRIGHT: CHEM ABS Whether vinyl chloride monomer (VCM) [75-01-4] or 1 of its metabolites, chloroacetaldehyde [107-20-0], has a short-term effect on cell metab. was studied. ATP [56-65-5], ATP [58-64-0], And AMP [61-19-8] levels were measured in regenerating rat liver after 4 and 16 h. No changes in the levels of these nucleotides was evident after i.v. injection of VCM immediately after partial hepatectomy. A 2nd technique, that of measuring transmembrane potentials with microelectrodes, was applied both to cells in rat liver slices and pulmonary alveolar macrophages. The addn. of VCM and chloroacetaldehyde with the electrodes in position in rat liver slices had no significant effect on transmembrane potentials. The same was true for a series of measurements on macrophages before and after addn. of the test chem. It therefore appears that VCM does not alter general cell metab. but could act on a specific intracellular target.

RN - 56-65-5; 58-64-0; 61-19-8; 73-24-5; 75-01-4; 107-20-0
EM - 8205

- 285 SI - CA/096/137285Y
CC - CA/104003
AU - Sharma RP
AD - Utah State Univ., Logan
TI - Splenic lymphocyte transformation in culture as a tool for immunotoxicologic evaluation of chemicals
SO - Immunol. Consid. Toxicol.; VOL 2,, 1981,133-45
PT - MONOGRAPH
CY - USA
LA - ENG
CD - 47AWA
AB - CBAC COPYRIGHT: CHEM ABS In male mice exposed to the phytomitogens phytohemagglutinin (a lectin derived from *Phaseolus vulgaris*) and pokeweed mitogen (obtained from *Phytolacca americana*), blast formation of lymphocytes (evaluated by the uptake of 3H-labeled thymidine) in short-term (64-68 h) cultures from spleens decreased with age. The addn. of small amts. of either mouse serum or liver homogenate significantly inhibited the thymidine uptake by cells in culture. Exposure of male mice to different chems. altered the transformation characteristics of their splenic lymphocytes. Addn. of chems. directly to lymphocyte cultures also caused different effects indicating that some of the effects can be caused directly on the cells. Thus, lymphocyte cultures from spleens can be utilized for toxicity evaluation of chems. on immune functions of the organism. The results can be used to predict immunosuppression or immunostimulation potential of different chems.
RN - 75-01-4; 96-09-3; 100-42-5; 123-93-3; 1746-01-6; 15060-26-1
EM - 8205
- 286 SI - CA/096/137168N
CC - CA/104000
AU - Chu KC ; Milman HA
AD - Natl. Cancer Inst., Bethesda
TI - Review of experimental carcinogenesis by compounds related to vinyl chloride
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,211-20
PT - JOURNAL ARTICLE
CY - USA
ZP - 20205
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS A review with 21 refs. on exptl. carcinogenesis by vinyl chloride analogs.
RN - 75-01-4
EM - 8205

287 SI - CA/096/137167M
CC - CA/104000
AU - Rice JM
AD - Lab. Comp. Carcinog., Natl. Cancer Inst., Frederick
TI - Prenatal susceptibility to carcinogenesis by xenobiotic
substances including vinyl chloride
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,179-88
PT - JOURNAL ARTICLE
CY - USA
ZP - 21701
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS A review with 26 refs. on prenatal
susceptibility to carcinogenesis by xenobiotic substances,
including vinyl chloride [75-01-4].
RN - 75-01-4
EM - 8205

RNW 1759

- 289 SI - CA/096/117055V
CC - CA/104003
AU - Wronska-Nofer T ; Parke M ; Laurman W
AD - Inst. Med. Pracy, Lodz
TI - Biochemical changes in vinyl chloride poisoning. I. Effects of exposure to vinyl chloride on lipid metabolism in rats
SO - Med. Pr.; VOL 32, ISS 4, 1981,247-53
PT - JOURNAL ARTICLE
CY - Pol.
LA - POL
CD - MEPAA
IS - 0465-5893
AB - CBAC COPYRIGHT: CHEM ABS Chronic exposure of rats to airborne vinyl chloride (I) [75-01-4] at concns. of 50, 500, and 20,000 ppm increased serum levels of total cholesterol (II) [57-88-5], II esters, phospholipids, and triglycerides (III), but the differences with the nonexposed controls were not statistically significant. A distinct fall of II and III levels was found in the rat liver but only at the highest concn. of I. No effects on the levels of lipids in muscles, aortic wall, and connective tissue were obsd.
RN - 57-88-5; 75-01-4
EM - 8205
- 290 SI - CA/096/099135Q
CC - CA/104006
AU - Sal'nikova LS ; Vorontsov RS
AD - Inst. Gig. Tr. Profzabol., Moscow
TI - Long-term consequences of the effects of vinyl chloride on embryogenesis
SO - Gig. Tr. Prof. Zabol.; ISS 12, 1981,56
PT - JOURNAL ARTICLE
CY - USSR
LA - RUS
CD - GTPZA
IS - 0016-9919
AB - CBAC COPYRIGHT: CHEM ABS Mice exposed to 4.8 and 35.3 mg/m³ vinyl chloride [75-01-4] during their antenatal periods showed no blastomogenic effects. No difference between exptl. and control animals were noted in relation to animals with neoplasms, localization of the tumors, and the degree of neoplastic development. The transplacental uptake route is not adequate for the study of blastomogenic effects for all chem. compds.
RN - 75-01-4
EM - 8205

- 291 SI - CA/096/098967A
CC - CA/104003
AU - Gluszc M
AD - Klin. Chorob Zawodowych, Inst. Med. Pracy, Lodz
TI - Difficulties of early diagnosis of liver damage in persons exposed to vinyl chloride
SO - Med. Pr.; VOL 32, ISS 4, 1981,277-82
PT - JOURNAL ARTICLE
CY - Pol.
LA - POL
CD - MEPAA
IS - 0465-5893
AB - CBAC COPYRIGHT: CHEM ABS Detns. of alanine aminotransferase [9000-86-6], aspartate aminotransferase [9000-97-9], gamma-glutamyl transpeptidase [9046-27-9], serum cholinesterase [9001-08-5], pseudo-cholinesterase [9001-08-5], alk. phosphatase [9001-78-9], and bilirubin [635-65-4], estns. of the prothrombin index, as well as proteinograms did not show any significant differences between a group of 228 men and women occupationally exposed to CH₂:CHCl [75-01-4] and a control group of 70 nonexposed subjects. There was no correlation between the results of bromosulphthalein test, liver scintigraphy, and detn. of the half-life of ¹³¹I elimination from blood, performed in 50 persons with the CH₂:CHCl poisoning suspected. The lack of a reliable method of early diagnosis of hepatopathy in workers exposed to CH₂:CHCl is accentuated.
RN - 75-01-4; 635-65-4; 9000-86-6; 9000-97-9; 9001-08-5; 9001-78-9; 9046-27-9
EM - 8205
- 292 SI - CA/096/143781H
CC - CA/161003
AU - Wilson JL
AD - Carborundum Co., Niagara Falls
TI - Determination of volatile organics in industrial and municipal wastewaters
SO - Report; ISS EPA-460/3-81-07; Order No. PB82-119090,, 1981,81 pp.
PT - TECHNICAL REPORT
CY - USA
LA - ENG
CD - D8REP
AB - CBAC COPYRIGHT: CHEM ABS Volatile org detn wastewater;Volatile substances Org., detn. of, in industrial and municipal wastewater
RN - 56-23-5; 67-66-3; 71-43-2; 71-55-6; 74-83-9; 74-87-3; 74-95-3; 75-00-3; 75-01-4; 75-09-2; 75-25-2; 75-27-4; 75-34-3; 75-69-4; 75-71-8; 78-87-5; 78-88-6; 79-00-5; 79-01-6; 79-34-5; 100-41-4; 106-46-7; 106-93-4; 107-02-8; 107-06-2; 107-13-1; 108-88-3; 108-90-7; 110-75-8; 124-48-1; 127-18-4; 156-60-5; 930-66-5; 7732-18-5; 10061-01-5; 10061-02-6
EM - 8205

VCM

- 293 SI - CA/096/148253N
CC - CA/159005
AU - Fedotova IV ; Smulevich VB ; Filatova VS ; Bul'bulyan MA
TI - Study of the epidemiology of malignant neoplasms among persons coming in contact with vinyl chloride under industrial conditions
SO - Aktual'n. Vopr. Gigieny Truda i Profpatol. v Nekotor. Otrasyakh Khim. Prom-sti i na Avtomob. Transp.; 1981,5-8
PT - JOURNAL ARTICLE
CY - USSR
LA - RUS
CD - D3RAP
AB - CBAC COPYRIGHT: CHEM ABS Neoplasm epidemiol vinyl chloride exposure Occupational exposure chloroethene neoplasm epidemiol;Neoplasm Formation of, epidemiol. of, vinyl chloride occupational exposure in relation to
RN - 75-01-4
EM - 8205
- 294 SI - CA/096/148240F
CC - CA/159005
AU - Bochkareva TV ; Kryzhanovskaya NA
TI - Clinical laboratory study of hepato-biliary pathology of workers in the production of vinyl chloride in the light of studies on its carcinogenic hazards
SO - Aktual'n. Vopr. Gigieny Truda i Profpatol. v Nekotor. Otrasyakh Khim. Prom-sti i na Avtomob. Transp.; 1981,95-8
PT - JOURNAL ARTICLE
CY - USSR
LA - RUS
CD - D3RAP
AB - CBAC COPYRIGHT: CHEM ABS Vinyl chloride carcinogen health hazard Biliary tract pathol vinyl chloride Liver pathol vinyl chloride;Biliary tract Vinyl chloride occupational exposure in relation to Disease;Carcinogens Vinyl chloride, occupational exposure to, biliary tract and liver pathol. in relation to;Liver Vinyl chloride toxicity to
RN - 75-01-4
EM - 8205
- 295 SI - CA/096/128863H
CC - CA/159005
AU - Weber H ; Reinl W ; Greiser E
AD - Staatl. Gewerbearzt, Duesseldorf
TI - German investigations on morbidity and mortality of workers exposed to vinyl chloride
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,95-9
PT - JOURNAL ARTICLE
CY - Fed. Rep. Ger.
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS Mortality vinyl chloride exposure

Germany morbidity vinyl chloride exposure Germany Occupational
vinyl chloride exposure Germany; Health hazard From vinyl chloride
exposure, in Germany, mortality and morbidity in relation to
Occupational

RN - 75-01-4
EM - 8205

- 296 SI - CA/096/128683Z
CC - CA/159001
AU - Il'icheva GV
TI - Gas-chromatographic determination of vinyl chloride and
1,2-dichloroethane in waste gases
SO - San.-khim. Metody Opredeleniya Vred. Veshchestv, M.; 1981,75-8
PT - JOURNAL ARTICLE
CY - USSR
LA - RUS
CD - D3RAP
AB - CBAC COPYRIGHT: CHEM ABS Vinyl chloride detn waste gas
Dichloroethane detn waste gas Gas chromatog waste gas
analysis; Waste gases Dichloroethane and vinyl chloride detn. in,
by gas chromatog.
RN - 75-01-4; 107-06-2
EM - 8205

- 297 SI - CA/096/128642K
CC - CA/159000
AU - Dimmick WF
AD - Emiss. Stand. Eng. Div., EPA, Research Triangle Park
TI - EPA programs of vinyl chloride monitoring in ambient air
SO - EHP, Environ. Health Perspect.; VOL 41,, 1981,203-6
PT - JOURNAL ARTICLE
CY - USA
ZP - 27711
LA - ENG
CD - EVHPA
IS - 0091-6765
AB - CBAC COPYRIGHT: CHEM ABS Review vinyl chloride ambient air; Air
pollution By vinyl chloride, in ambient air, monitoring of,
Environmental Protection Agency Programs of
RN - 75-01-4; 9002-86-2
EM - 8205

00009905

VCM

PAGE 148

CC - CA/
AU - Err
AD - Bert Chem. Ind., Nuernberg
TI - Vin identification and solution of a problem
SO - J. pol.; VOL 3, ISS 4, 1981,258-60
PT - JOUR
CY - Fed.
ZP - D-85
LA - ENG
CD - JVT
IS - 0193-
AB - CBAC TIGHT: CHEM ABS Vinyl chloride occupational health
hazards; disease occupational vinyl chloride;Air pollution By
vinyl chloride, occupational exposure to, health hazards of, and
prevention thereof
RN - 75-01-4
EM - 8205

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