

A BIBLIOGRAPHY ON VINYL CHLORIDE

Prepared by the
Office of Occupational Health Surveillance and Biometrics
and
Office of Research and Standards Development
National Institute for Occupational Safety and Health
February 28, 1974

UCC
009383

- 222 ACGIH: Documentations of Threshold Limit Values for Substances in Workroom Air 3rd ed pp.277-8, 1971
- 210 Albright, L.F.: Vinyl Chloride Processes. Chem Eng 74:123-130, 1967
- 211 Albright, L.F.: Manufacture of Vinyl Chloride. Chem Eng 74:219-226, 1967
- 212 Albright, L.F.: Polymerization of Vinyl Chloride. Chem Eng 74:151-158, 1967
- 213 Albright, L.F.: Vinyl Chloride Polymerization by Suspension Process Yields Polyvinyl Chloride Resins. Chem Eng 74:145-152, 1967
- 214 Albright, L.F.: Vinyl Chloride Polymerization by Emulsion, Bulk and Solution Processes. Chem Eng 74:85-92, 1967
- 220 Ambrosi, L., Rantuccio, F. and Armeli, G.: Skin Hazards and Their Prevention in Various Plastics Industries. Atti del Symposium Sulla Prevenzione Delle Dermatosi Professionali Conf. Paper pp.275-293, 1970
- 156 Anghelescu, F. et al: Clinico-Pathogenic Considerations of Raynaud's Phenomenon in the Employees of Polyvinyl Chloride Industry. Medicina Interna 21(4):473-482, 1969
- 178 Anon: Vinyl Chloride Survey Starts. Chemecology p.5, Aug 1973
- 032 Antonyuzhenko, V.A.: Professional Intoxication with Vinylchloride. Gig Truda 12(3):50-52, 1968
- 176 Antonyuzhenko, V.A., Golova, I.A. and Alieva, N.K.: The State of the Analysors Function in Chronic Occupational Poisoning with Some Narcotic Substances. Gig Truda 9:19-22, 1972
- 181 Arena, J.M.: Vinyl Chloride Poisoning; Toxicology...Symptoms... Treatment(BOOK) 2nd ed, Charles C. Thomas, Springfield, Ill. pp.67&249, 1970
- 088 Autian, J.: Toxicity, Untoward Reactions, and Related Considerations in the Medical Use of Plastics. J Pharm Sci 53(11):1289-1301, 1964
- 100 Baretta, E.D., Stewart, R.D. and Mutchler, J.E.: Mqnitoring Exposures to Vinyl Chloride Vapor: Breath Analysis and Continuqus Air Sampling. AIHAJ 30(6):537-544, 1969
- 026 BasalaeV, A.V., Vazin, A.N. and Kochetkov, A.G.: Pathogenesis of Changes Developing Due to Long-Term Exposure to the Effect of Vinyl Chloride. Gig Truda 16(2):24-27, 1972

- 018 Basalaev, A.V.: Experience with the use of large-frame photofluorography in examining skeletal bones of persons occupationally dealing with unsaturated hydrocarbons of the ethylene series (olefins) and their chlorine derivatives (Vinyl Chloride, Trichloroethylene). Gig Truda 14(11):34-37, 1970
- 138 Bensted, J.P.M.: Experimental Studies in Mice on the Late Effects of Radioactive and Nonradioactive Contrast Media. Annals of the New York Acadamey of Sciences 145:728-737, 1967
- 221 Bergwein, K.: Pure Hydrocarbons, Liquified Propellants and Vinyl Chloride as Aerosol Propellants and Mixtures. Kosmetik-Parfum-Drogen Rundschau 8(1-2):20-22, 1970
- 087 Bischoff, F.: Organic Polymer Biocompatibility and Toxicology. Clin Chem 18(9):869-894, 1972
- 120 Boettner, E.A. and Weiss, B.: An Analytical System for Identifying the Volatile Pyrolysis Products of Plastics. AIHAJ 28:535, 1967
- 109 Bormann, G. and Leeser, A: 2-Phenylindole as Stabilizer in Polyvinyl Chloride(PVC). Arch Tox 21:1, 1965
- 140 Boytsov, A.N.: Problems of Industrial Hygiene in New Plants for the Manufacture of Synthetic Resins and Plastics. Gig Truda 11:20-27, 1963
- 012 Brand, K.G., Buoen, L.C. and Brand, I.: Carcinogenesis From Polymer Implants: New Aspects from Chromosomal and Transplantation Studies During Premalignancy. J NCI 39(4):663-679, 1967
- 183 Clapp, J.J., Kaye, C.M. and Young, L.: Metabolism of Allyl Compounds in the Rat. Biochem J 114(1):6p-7p, 1969
- 130 Clayson, D.B.: Chemical Carcinogenesis(BOOK). pp.101-112, 1962
- 126 Cook, W.A., Giever, P.M., Dinman, B.D. and Magnuson, H.J.: Occupational Acroosteolysis II. An Industrial Hygiene Study. Arch Env Health 22(1):74-82, 1971
- 077 Cylwik, B.: Histological and Histochemical Changes in liver During Experimental Poly (vinyl chloride) Pneumoconiosis. Roczn Akad Med Bialymstoku 17:93-111, 1972
- 208 D'yachuk, I.A.: A Contribution to the Hygienic Evaluation, of PVC Floor Tiles for Apartments. Hyg and Sanit 35(3):424-7, 1970
- 198 Danziger, H.: Accidental Poisoning by Vinyl Chloride. Can Med Assoc J 82(16):828-830, 1960

- 133 Deese, D.E. and Joyner, R.E.: Vinyl Acetate: A Study of Chronic Human Exposure. AIHAJ 30:449-457, 1969
- 058 Dehaan, R.L.: Toxicity of Tissue Culture Media Exposed to Polyvinyl Chloride Plastic. Nature(London), New Biol 231(20):85-86, 1971
- 184 Deichmann, W.B.: Toxicology of Drugs and Chemicals 4th ed(BOOK) Academic Press New York pp620-1, 1969
- 125 Dinman, B.D., Cook, W.A., Whitehouse, W.M., Magnuson, H.J. and Ditchek, T.: Occupational Acroosteolysis I. An Epidemiological Study. Arch Env Health 22(1):61-73, 1971
- 127 Dodson, V.N., Dinman, B.D., Whitehouse, W.M., Nasr, A.N.M and Magnuson, H.J.: Occupational Acroosteolysis III. A Clinical Study. Arch Env Health 22(1):83-91, 1971
- 086 Fabiszewska-Gorna D., Kozakiewicz, A.: Plastic in Opthamology: I. General Characteristics of Plastics. Klin Oczna, 41(5):747-751, 1971
- 185 Fairhall, L.T.: Industrial Toxicology 2nd ed(BOOK) Hafner Publishing Co New York pp356-7, 1969
- 143 Filatova, V.S.: The Hygienic Evaluation of New Technological Processes in the Chemical Industry. Labor Hyg and Occ Diseases 11:1-6, 1966
- 151 Filatova, V.S. and Antonyuzhenko, V.A.: Hygienic Conditions of Work and Occupational Disease Incidence Among Workers Engaged in Production of Suspension Polyvinyl Chloride Reviewed Dynamically for a Number of Years. Gig Truda 4:32-34, 1971
- 157 Filatova, V.S. et al: Occupational Hygiene and Health Condition of Workers Engaged in the Production of Latex Polyvinyl Chloride. Gig Truda 8:9-14, 1965
- 202 Filatova, V.S. and Gronsberg, E.Sh.: Sanitary-Hygienic Conditions of Work in the Production of Polychlorvinyl Tar PVC and Measures of Improvement. Gig Sanit 1:38-42, 1957
- 154 Fregert, S. and Rorsman, H.: Hypersensitivity to Epoxy Resins Used as Plasticizers and Stabilizers in Polyvinyl Chloride(PVC) Resins. Acta Dermato-Venereologica 43:10-13, 1963
- 162 Gabor, S. et al: Comments on the Biochemical Alterations in Workers of the Vinyl Chloride Synthesis and Polymerization Industry. Igiene 13(5):409-18, 1964

- 152 Gage, J.C.: The Subacute Inhalation Toxicity of 109 Industrial Chemicals. Br J Ind Med 27:1-18, 1970
- 207 Gallant, R.W.: Physical Properties of Hydrocarbons. Hydrocarbon Processing & Petroleum Refiner 45(6):153-60, 1966
- 146 Gavruseyko, O.M. and Filatova, V.S.: Hygienic Evaluation of Certain Types of Drying Units Used in the Chemical Industry. Gig Truda 1:32-39, 1959
- 112 Genkina, T.I., et al: The Evaluation of Harmful Substances from Some Polyvinyl Chloride Floor Coverings. Sb Tr Vses Nauch-Iss Inst Nov Stroit 14:13, 1966
- 186 Gleason, M.N., Gosselin, R.E., Hodge, H.C. and Smith, R.P.: Clinical Toxicology of Commercial Products (BOOK), The Williams and Wilkins Co., Baltimore. p.151, 1969
- 110 Gohlke, R. and Springer, E.: Toxicological--Histochemical Investigation of Some PVC Stabilizers. Ztschr f dig Hyg u ihre Grenzgebiete 11:437, 1965
- 096 Grigorescu, I. and Toba, Ch.: Vinyl Chloride; Industrial Toxicologic Aspects. Rev Chim 17(8):499-501
- 201 Gronsberg, E.Sh.: Determination of Vinyl Chloride in Air. Gig Sanit 11:43-44, 1954
- 231 Gronsberg, E.Sh.: Colorimetric Determination of Vinyl Chloride in Air. Himieeskaja Promyslennost 42(7)30-31, 1966
- 117 Guess, W.L et al: Characteristics of Subtle Toxicity of Certain Plastic Components Uses in Manufacture of Polyvinyls. C.A. 68:20560q, 1968
- 119 Guess, W.L. and Haberman, S.: Toxicity Profiles of Vinyl and Polyolefinic Plastics and Their Additives. Tech Pap Reg Tech Conf Soc Plast Eng, NY Sec, 1967; C.A. 68:1706a, 1968
- 103 Harris, D.K.: Some Hazards in the Manufacture and Use of Plastics. Br J Ind Med 16:221, 1959
- 149 Harris, D.K.: Health Problems in the Manufacture and Use of Plastics. Br J Ind Med 10:255-268, 1953
- 192 Harris, D.K. and Adams, W.G.F.: Acro-osteolysis Occurring in Men Engaged in the Polymerization of Vinyl Chloride. Br Med J 5567:712-4, 1967
- 009 Horn, K-H., Pasternak, G. and Graffi, A.: Experiments on the Induction of Tumor-Specific Resistance Against Isologous Transplant of

Sarcomas Induced by Implantation of Plastic Pellets. Archivon
Immunologiae et Therapiae Experimentalis 14(6):737-742, 1966.

- 132 Horta, J.DaS. Abbatt, J.D. Motta, L, Cayolla da, and Roriz, M.L.:
Lancet 2:201-205, 1965
- 217 Hueg, W.C.: Occ & Environ Cancer of Urinary System
- 129 Hueper, W.C. and Conway, W.D.: Chemical Carcinogenesis and
Cancers(BOOK). Charles C. Thomas, Springfield, Mass. pp.353-365,
1964
- 216 Hunter, D: The Diseases of Occupations(BOOK). Little Brown & Co.,
Boston, 1969 pp.578-642.
- 027 Jaeger, R.J. and Rubin, R.J.: Migration of a Phthalate Ester
Plasticizer from Polyvinyl Chloride Blood Bags Into Stored Human
Tissues. NE J Med 287(22):1114-1118, 1972
- 021 Jensen, S., Jernelov, A., Lange, R., and Palmork, K.H.: Chlorinated By-
Products from Vinyl Chloride Production a New Source of Marine
Pollution. FAO (Food Agric Organ U.N.) Fish Rep 99:170, 1971
- 139 Juhe, S., Lange, C.E. Stein, G and Veltman, G.: Deutsche Medizinische
Wechenschrift, 1972
- 147 Kal'manovich, F.L.: Sanitary-Chemical Characteristics of Polyvinyl
Chloride Floor Coatings. Hyg and Sanit 33(2):274-280, 1968
- 135 Key, M.M.: Occupational Dermatitis from Plastics. JMA Georgia 57:421-
425, 1968
- 004 Kogan, A.K. and Tugarinova, V.N.: On The Blastomogenic Action of
Polyvinyl Chloride. Vop Onkol 5:540-545, 1959
- 006 Kogan, A.K. and Raikhlin, N.T.: Dynamics of Morphological Changes in
the Connective Tissue Capsules Developing Around the Plastic
Implants During the Malignization Process. Arkh Path 23(12):62-68,
1961
- 163 Kotulski, B.: Characteristics and Treatment of Waste Waters from
Production of Vinyl Resins. Gaz Woda 38(10):336-339, 1964
- 025 Kramer, C.G. and Mutchler, J.E.: The Correlation of Clinical and
Environmental Measurements for Workers Exposed to Vinyl Chloride.
AIHAJ 33(1):19-30, 1972
- 189 Lefauz, R.: Practical Toxicology of Plastics(BOOK). CRC Press,
Cleveland, Ohio pp81-3, 1968

- 083 Leong, B.K. and Torkelson, T.R.: Effects of Repeated Inhalation of Vinyl Bromide in Laboratory Animals with Recommendations for Industrial Handling. *AIHAJ* 31:1-11, 1970
- 092 Lester, D., Greenberg, L.A. and Adams, W.R.: Effects of Single and Repeated Exposures of Humans and Rats to Vinyl Chloride. *AIHAJ* 24(3):265-275, 1963
- 134 Lewis, C.E. and Kerby, G.R.: An Epidemic of Polymer-Fume Fever. *JAMA* 191(5):375-378, 1965
- 190 Little, K.: What's in PVC? *Lancet* 7563:351-2, 1968
- 024 Markowitz, S.S., McDonald, C.J., Fethiere, W. and Kerzner, M.S.: Occupational Acroosteolysis. *Arch Derm* 106(8):219-223, 1972
- 090 Mastromatteo, E., Fisher, A.M., Christie, H. and Danziger, H.: Acute Inhalation Toxicity of Vinyl Chloride to Laboratory Animals. *AIHAJ* 21(5):394-398, 1960
- 206 McDonald, R.A., Shroder, S.A. and Stull, D.R.: Vapor Pressures of Freezing of 30 Organics. *J Chem Eng Data* 4(4):311-313, 1959
- 209 Meshkova, O.V., Dmitrieva, V.N. and Bezugly, V.D.: Polarographic Analysis of Waste Waters of Polyvinyl Chloride Production. *The Soviet Chem Industry* 47(4):252-5, 1971
- 240 Meyerson, L.B. and Meier, G.C.: Cutaneous Lesions in Acroosteolysis. *Arch Derm* 106(2):224-227, 1972
- 089 Morris, G.E.: Vinyl Plastics: Their Dermatological and Chemical Aspects. *Arch I H & Occ Med* 8:535-539, 1953
- 205 Morris, H.E.: Integrated Pollution Control. *Petroleum Refiner* 33(12):229-31, 1954
- 199 Nitti, G., Petruzzellis, V. and Fasano, V.: Rheographic Observations Among Workers in The Plastics Industry. *Securitas* 55(8):683-694, 1970
- 123 O'Conner, R.B. and McCord, C.P.: A New Occupational Disease is Born. *JOM* 12:234, 1970
- 141 O'Mara, M.M., Crider, L.B. and Daniel, R.L.: Combustion Products From Vinyl Chloride Monomer. *AIHAJ* 32(3):153-156, 1971
- 002 Oppenheimer, B.S., Oppenheimer, E.T., Stout, A.P. and Danishefsky, I.: Malignant Tumors Resulting from Embedding Plastics in Rodents. *Science* 118:305-306, 1953

- 003 Oppenheimer, B.S., Oppenheimer, E.T., Danishefsky, I., Stout, A.P. and Eirich, F.R.: Further Studies of Polymers as Carcinogenic Agents in Animals. *Cancer Research* 15:333-340, 1955.
- 010 Oppenheimer, B.S., Oppenheimer, E.T. and Stout, A.P.: Sarcomas Induced in Rodents by Imbedding Various Plastic Films. *Proceedings of the Society of Experimental Biology and Medicine* 79:366-369, 1952.
- 080 Orr, J.W.: The Production of Liver Tumors by Azo Compounds. *Br Med J Bull* 4:385-388, 1947
- 193 Patty, F.A.: *Industrial Hygiene and Toxicology Vol II(BOOK)* Interscience Publishers pp.1303-5, 1963
- 113 Pegum, J.S.: Contact Dermatitis from Plastics Containing Triaryl Phosphates. *Br J Derm* 78:726, 1966
- 085 Petersen, P., Bredahl, E., Lauritsen, O. and Laursen, T.: Examination of the Liver in Personnel Working With Liquid Rocket Propellant. *Br J Ind Med*. 27:141-146, 1970
- 118 Popov, L.A. and Yablochkin, V.D.: Sanitary Chemical Features of Gaseous Products of a Polymer Membrane Made from Polyvinyl Chloride. *Gig Sanit* 32:100, 1967
- 150 Popov, L.A. and Yablochkin, V.D.: Characteristics of Gases Released by Polyvinyl Chloride Film. *Hyg and Sanit* 32(7):114-117, 1967
- 137 Prendergast, J.A. Jones, R.A., Jenkins, L.J. Jr. and Siegel, J.: Effects on Experimental Animals of Long-Term Inhalation of Trichloroethylene, Carbon Tetrachloride, 1,1,1-Trichloroethane, Dichlorodifluoromethane, and 1,1-Dichloroethylene. *T & AP* 10:270-289, 1967
- 011 Radeva, M. and Dinoeva, S.: Investigation of the Blastomogenic Action of Polyvinyl Chloride Resin Used in the Food Industry. *Onkologia Informatisionen Biuletin Prilizhenie* 3:24-28, 1970
- 007 Raikhlin, N.T. and Kogan, A.K.: The Development and Malignant Transformation of Connective Tissue Capsules Forming around Implants of Plastic Material. *Problems of Oncology* 7(9):1247-1252, 1961; *Vop Onkol* 7:13-17, 1961
- 114 Reploh, H. et al: The Question of Toxicity from Thermal Disintegration of Plastics. *Arch f Hyg u Bakt* 150:393, 1966; *Bull of Hyg* 42:380, 1967
- 128 Roth, F.: *Virchow Archiv* 331:119-137, 1958

- 155 Rumyantseva, S. and Goryacheva, L.A.: Glucocortoid Function of the Adrenals in Patients Suffering From Chronic Poisoning with Some Unsaturated and Chlorinated Hydrocarbons. Gig Truda 12(12):16-19, 1968
- 005 Russell, F.E., Simmers, M.H., Hirst, A.E. and Pudenz, R.H.: Tumors Associated with Embedded Polymers. J NCI 23(2):305-311, 1959.
- 215 Sante, L.R.: Manual Roentgenological Technique(BOOK). Edwards Brothers, Inc., Ann Arbor, 1962, p. 291
- 187 Sax, N.I.: Dangerous Properties of Industrial Materials, Van Nostrand Reinhold(BOOK). pp.1227-8
- 105 Scheftel, V.O.: Leaching of Lead Stabilizers from Poly (vinyl) chloride Water Supply Pipes. Gig Sanit. 29:105, 1964
- 188 Schottek, W.: The Toxicology of Vinyl Chloride. Chemische Technik 21(11):708-711, 1969
- 237 Shabad, L.M.: Plastics Carcinogenesis, Some Experimental Data and Its Possible Importance for Clinic and Prophylaxis of Cancer. Potential Carcinogenic Hazards from Drugs(BOOK), UICC Monograph Series Vol 7 pp.185-195, 1967
- 144 Shelley, P.G. and Sills, E.J.: Monomer Storage and Protection. Chemical Engineering Progress 65(4):29-35, 1969
- 106 Slepak, N.I. and Teplyakova, R.V.: Hygienic Evaluation of Polyvinyl Chloride Imitation Leather Upholstery. Hyg and Sanit 29:20, 1964
- 182 Smirnova, N.A.: Delayed Sequelae of Acute Occupational Poisoning with Certain Hydrocarbons and Their Derivatives. Gig Truda 14(5):50-51, 1970
- 042 Smyth, H.F., Jr. and Weil, C.S.: Chronic Oral Toxicity to Rats of a Vinyl Chloride-Vinyl Acetate Copolymer. T & AP 9(3):501-504, 1966
- 196 Sollmann, T.: A Manual of Pharmacology 8th ed. W.B. Saunders Co Philadelphia, Pa. p.918, 1964
- 197 Spector, W.S.: Handbook of Toxicology Vol I. W.B. Saunders Co, Philadelphia, Pa pp.352-3, 1956
- 111 Springer, E.: Animal Experiments on the Toxicity of Some Vinyl Chloride-Vinylidene Chloride Mixed Polymerates and Two Stabilizers. Ztschr f d g Hyg ihre Grangebeite 11:442, 1965; Bull of Hyg 40:1358, 1965

- 008 Stankevich, K.I.: Experimental Data on the Blastomogenic Effect of Coumarone and Polyvinyl Chloride Plates. Vrach Delo 11:108-114, 1962
- 177 Stankevich, K.I. et al: Hygienic Examination of Some Polymer Materials Used in Housing Construction. Vrach Delo 5:105-9, 1968
- 121 Stark, G.W.V.: Toxic Gases from PVC(Polyvinyl Chloride) in Household Fires. Rubber and Plastic Age 50:283-4, 1969
- 191 Stecher, P.G.(ed): The Merck Index 8th ed(BOOK). Merck and Co, Rahway, New Jersey p.1108, 1968
- 107 Steel, J.: Health Hazards in the Welding and Cutting of Paint-Primed Steel. Ann Occ Hyg 7:247, 1964
- 038 Stulova, E.A.: Characteristics of the State of Thermal Regulation in Chronic Vinyl Chloride Intoxication. Gig Truda 17:53-55, 1973
- 142 Suciu, I et al: Arterial Hypertension and Raynaud's Phenomenon in Polyvinyl Chloride Production Workers. Medichem pp520-28, 1972
- 030 Suciu, I., Drojman, I. and Valaskai, M.: A Study of Diseases Caused by Vinyl Chloride. Med Lav 58(4):261-271, 1967
- 200 Sultzmänn : Air Sampling etc(BOOK)
- 122 Szende, B. et al: Pneumoconiosis Caused by the Inhalation of Polyvinyl Chloride Dust. Med Lav 61:433-6, 1970
- 079 Tantsyrev, G.D. and Kozlov S.T.: Determination of Hydrocarbon Chloro-Derivatives on the =Khromass-2=Chromato-mass spectrometer. Zh Anal Khim 23(12):1881-3, 1968
- 082 Torkelson, T.R., Oyen, F. and Rowe, V.K.: The Toxicity of Vinyl Chloride as Determined by Repeated Exposure of Laboratory Animals. AIHAJ 22(5):354-361, 1961
- 153 Trevethick, R.A. and Adam, J.A.: A Review of Industrial Hygiene Standards and Their Application. Transactions of the Society of Occupational Medicine 19(4):112-117, 1969
- 131 Truhaut, R.: UICC Monograph Series 7:188-195, 1967
- 115 Tsuchiya, T. and Sumi, T.: Thermal Decomposition Products of Poly(vinyl)chloride. J App Chem 17:364, 1967
- 031 Vazin, A.N. and Plokhova, E.I.: On Obtaining an Experimental Model of the 'Toxic Angioneurosis' Arising Under the Chronic Effect of Vinyl Chloride Vapor on the Organism. Gig Truda 12(7):47-49, 1968

- 051 Vazin, A.N. and Plokhova, E.I.: Changes in the Cardiac Activity of Rats Chronically Exposed to Vinyl Chloride Vapors. Farmakol Toksikol 32(2):320-2, 1969
- 164 Vazin, A.N. and Plokhova, E.: Dynamics of the Level of Adrenaline Like Substances in the Blood of Rabbits Under the Chronic Effect of Vinyl Chloride Vapor. Gig Truda 13(6):46-7, 1969
- 148 Vazin, A.N.: Changes in the Rate of Incolcation of Conditioned Reflexes in Rats on Prolonged Exposure to Vinyl Chloride Vapor in Concentrations Approaching the Maximum Permissible Concentration. Hyg and Sanit 35(6):434-435, 1970
- 232 Vazin, A.N. and Plokhova, E.I.: Pathogenic Effect of Chronic Exposure to Vinyl Chloride on Rabbits. Farmakol Toksikol 31(3):369-372, 1968
- 001 Viola, P.L., Bigotti, A. and Caputo, A.: Oncogenic Response of Rat Skin, Lungs and Bones to Vinyl Chloride. Cancer Research 31:516-522, 1971.
- 033 Viola, P.L.: Pathology of Vinyl Chloride. Med Lav 61:174-180, 1970; JOM 13:156, 1971
- 145 Weeks, M.H. and Yevich, P.: The Toxicity of Combustion Products of Pyrotechnics. AIHAJ 24(6):622-629, 1963
- 203 Williams, F.W. and Umstead, M.E.: Determination of Trace Contaminants in Air by Concentrating on Porous Polymer Beads. Analytical Chemistry 40(14):2232-4, 1968
- 194 Wilson, R.H., McCormick, W.E., Tatum, C.F. and Creech, J.L.: Occupational Acroosteolysis. JAMA 201(8):577-81, 1967
- 108 Zdrazil, J. and Picha, F.: Phthalic Acid Esters in the Atmosphere in the Processing of Polyvinyl Chloride. Pracovni Lekar 17:257, 1965
- 116 Zedda, S.: The Prevention of Lead Poisoning in the Manufacture of Plastic Materials. Med Lav 58:370, 1967
- 234 --- ---: Data Sheet-Vinyl Chloride. Air Products and Chemicals Inc., Specialty Gas Dept.
- 104 --- ---: Decomposition Products--Various Materials. Michigan's Occupational Health 7(3):4, 1962
- 093 --- ---: Hygienic Guide Series--Vinyl Chloride(Chloroethylene, Chloroethane). AIHAJ 25(4):421-3, 1964

- 235 --- ---: Occupational Diseases-A Guide to Their Recognition.
USDHEW,PHS pp.237-8, 1964
- 236 --- ---: Properties and Essential Information for Safe Handling of
Vinyl Chloride-Chemical Safety Data Sheet SD-56. Manufacturing
Chemists Association, 1972
- 124 --- ---: White Fingers. JAMA 215:631, 1971
- 180 --- ---: Env Res 6:132-143, 1973

VINYL CHLORIDE (POLYMERIZATION)
STANDARDS WORK GROUP

NIOSH - CDC

Dr. Bobby F. Craft
Dr. Henry Falk
Dr. Clark Heath
Dr. Donald V. Lassiter
Dr. Joseph Mallov
Dr. Gordon Nifong
Mr. Vernon E. Rose
Dr. Joseph Wagoner

External Consultants

Mr. Louis S. Beliczky, United Rubber, Cork, Linoleum, and Plastic Workers
of America
Dr. Zeb G. Bell, Pittsburgh Plate Glass Company
Dr. Maurice N. Johnson, B. F. Goodrich Company
Dr. Charles G. Kramer, Dow Chemical Company
Mr. Anthony Mazzocchi, Oil, Chemical and Atomic Workers Union
Mr. George Perkel, Textile Workers Union
Mr. Sheldon W. Samuels, Industrial Union Department AFL-CIO
Dr. W. Mayo Smith, American Products and Chemicals Company
Mr. R. N. Wheeler, Union Carbide Company