

8. REFERENCES

- * ACGIH. 1986. Documentation of the threshold limit values and biological exposure indices. 5th ed. American Conference of Governmental Industrial Hygienists, Inc., Cincinnati, OH.
- * Albert RE, Sellakumar AR, Laskin S, et al. 1982. Gaseous formaldehyde and hydrogen chloride induction of nasal cancer in the rat. *J Nat Cancer Inst* 68:597-603.
- * Albert RE, Pasternack BS, Shore RE, et al. 1975. Mortality patterns among workers exposed to chloromethyl ethers- a preliminary report. *Environ Health Perspect* 2:109-214.
- * Anderson D, Styles JA. 1978. The bacterial mutation test. *Br J Cancer* 37:924-930.
- * ASTM. 1987. Bis(chloromethyl) ether (bis CME) in workplace atmospheres (gas chromatography - mass spectrometry - Method D 3476-79). 1987 Annual book of ASTM standards, Vol. 11.03, Atmospheric analysis; occupational health and safety. American Society for Testing and Materials, Philadelphia, PA: 259-264.
- * Barnes D, Bellin J, DeRosa C, et al. 1987. Reference dose (RfD): description and use in health risk assessments. Volume I, Appendix A: Integrated risk information system supportive documentation. Washington, DC: US Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-86/032a.
- * Brothers RF. 1989. Written communication (May 5) to Director, Office of External Affairs, Agency for Toxic Substances and Disease Registry, regarding manufacture of BCME. Director, Issues Development, Eastman Kodak Company.
- Bruner F, Bertonic G, Severni C. 1978. Gas chromatographic determination of bis(chloromethyl) ether emissions in the atmosphere of industrial plants. *Anal Chem* 50:53.

8. REFERENCES

- *Callahan MA, Slimak MW, Gabel NW, et al. 1979. Water-related environmental fate of 129 priority pollutants. Vol. II. Halogenated aliphatic hydrocarbons, halogenated ethers, monocyclic aromatics, phthalate esters, polycyclic aromatic hydrocarbons, nitrosamines, and miscellaneous compounds. Washington, DC: U.S. Environmental Protection Agency, EPA 440/4/79/029b. PB80-2043816.
- Chovil AC. 1979. Occupational lung cancer and smoking: a review in the light of current theories of carcinogenesis. Chem Manuf Assoc J 121:548-555.
- *CLPSD. 1988. Contract laboratory program statistical database. Viar and Company, Alexandria VA: September 6, 1988.
- *Cole P, Merletti F. 1980. Chemical agents and occupational cancer. J Environ Pathol 3:399-417.
- *Collier L. 1972. Determination of bis-chloromethyl ether at the ppb level in air samples by high-resolution mass spectrometry. Environ Sci Technol 6:930-932.
- *Collingwood KW, Pasternack BS, Shore RE. 1987. Industry-wide study of respiratory cancer in chemical workers exposed to chloromethyl ether. J Nat Cancer Inst 78:1127-1135.
- *Cupitt LT. 1980. Fate of toxic and hazardous materials in the air environment. Research Triangle Park, NC: U.S. Environmental Sciences Research Laboratory PB80-22194b.
- *DeFonso LR, Kelton SC. 1976. Lung cancer following exposure to chloromethyl methyl ether. Arch Environ Health 31:125-130.
- *Drew R, Laskin S, Kuschner M, et al. 1975. Inhalation carcinogenicity of alpha halo ethers. Arch Environ Health 30:61-69.
- EPA. 1975. Investigation of selected potential environmental contaminants, haloethers. Washington, DC: U.S. Environmental Protection Agency. NTIS PB-246-356
- *EPA. 1979. Toxic Substances Control Act. Chemical substances inventory. Washington, DC: U.S. Environmental Protection Agency, Office of Toxic Substances.

8. REFERENCES

- * EPA. 1980a. An exposure and risk assessment for bis(chloromethyl) ether. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards (Interim Draft).
- * EPA. 1980b. U.S. Environmental Protection Agency. Hazardous waste; identification and listing; final and interim rules. Federal Register. 45:3384-33133.
- EPA. 1980c. Guidelines and methodology used in the preparation of health effect assessment chapters of the consent decree water criteria documents. U.S. Environmental Protection Agency. Federal Register 45:79347-79357.
- EPA. 1980d. Ambient water quality criteria document for haloethers. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards. EPA 440/5-80-050. NTIS PB81-117616.
- * EPA. 1985. U.S. Environmental Protection Agency. Part II. Notification requirements; reportable quantity adjustments; final rule and proposed rule. Federal Register. 50:13456-13522.
- * EPA. 1987a. Health and environmental effects document for haloethers. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. ECAO-CIN-G014.
- * EPA 1987b. U.S. Environmental Protection Agency. Part II. Hazardous substances, reportable quantity adjustments; proposed rules. Federal Register. 52:8140-8171.
- * EPA. 1987c. U.S. Environmental Protection Agency. Part II. Extremely hazardous substances list and threshold planning quantities; emergency planning and release notification requirements; final rule. Federal Register. 52:13378-13410.
- * EPA. 1988. Integrated risk information system (IRIS). Printout for bis(chloromethyl) ether. Washington, DC: U.S. Environmental Protection Agency. November.
- Evans HJ. 1982. Cytogenetic studies on industrial populations exposed to mutagens. In: Bridges BA, Butterworth BE, Weinstein IB. Indicators of genotoxic exposure. Banbury Report 13. 325-336.

8. REFERENCES

- * Figueroa WC, Razkowski R, Weiss W. 1973. Lung cancer in chloromethyl methyl ether workers. N Engl J Med 288:1096-97.
- * Fishbein L. 1979. Potential halogenated industrial carcinogenic and mutagenic chemicals. III. Alkane halides, alkanols and ethers. Science Total Environ 11:223-257.
- * Frankel LS, McCallum KS, Collier L. 1974. Formation of bis(chloromethyl) ether from formaldehyde and hydrogen chloride. Environ Sci Technol 8:356-359.
- Frost JK, Gupta PK, Erozan YS, et al. 1973. Pulmonary cytologic alterations in toxic environmental inhalation. Human Pathol 4:521-536.
- * FSTRAC. 1988. Summary of state and federal drinking water standards and guidelines. Federal-State Toxicology and Regulatory Alliance Committee. March, 1988.
- * Gargus JL, Reese WH, Rutter HA. 1969. Induction of lung adenomas in newborn mice by bis(chloromethyl) ether. Toxicol Appl Pharmacol 15:92-96.
- Gilbert D, Eschenroeder A, Goyer M, et al. 1979. An exposure and risk assessment for bis(chloromethyl) ether. Interim draft. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards.
- Gold LS, Backman GM, Hooper NK, et al. 1987. Ranking the potential carcinogenic hazards to workers from exposures to chemicals that are tumorigenic in rodents. Environ Health Perspect 76:211-219.
- Gosselin RE. 1984. Clinical toxicology of commercial products. 5th edition. Baltimore, MD: The Williams and Wilkins Co. 11-183.
- * HSDB. 1988. Hazardous Substances Data Base - computer printout for bis(chloromethyl) ether. National Library of Medicine, National Toxicology Information Program, Bethesda, MD.

8. REFERENCES

- * IARC. 1982. IARC Monographs on the evaluation of the carcinogenic risk of chemicals to humans. Chemicals, industrial processes and industries associated with cancer in humans. IARC Monographs, Volumes 1 to 29, Supplement 4. Lyon, France: International Agency for Research on Cancer.
- * Kallos GJ. 1981. Oxygen-induced response enhancement in determination of bis(chloromethyl) ether by gas chromatography with ⁶³Ni electron capture detection. Anal Chem 53: 963-965.
- * Krost KJ, Pellizzari ED, Walburn SG, et al. 1982. Collection and analysis of hazardous organic emissions. Anal Chem 54: 810-817.
- * Kuschner M, Laskin S, Drew RT, et al. 1975. Inhalation carcinogenicity of alpha halo ethers. Arch Environ Health 30:73-77.
- * Laskin S, Kuschner M, Drew RT, et al. 1971. Tumors of the respiratory tract induced by inhalation of bis(chloromethyl) ether. Arch Environ Health 23:135-136.
- Lemen RA. 1986. Occupationally induced lung cancer epidemiology. In: Merchant JA, ed. Occupational respiratory diseases. U.S. Department of Health and Human Services 629-656.
- * Lemen RA, Johnson WM, Wagoner JK, et al. 1976 a Cytologic observations and cancer incidence following exposure to BCME. Ann NY Acad Sci 271:71-80.
- * Leong BK, MacFarland HN, Reese WH. 1971. Induction of lung adenomas by chronic inhalation of bis(chloromethyl) ether. Arch Environ Health 22:663-666.
- * Leong BKJ, Kociba RI, Jersey GC. 1981. A lifetime study of rats and mice exposed to vapors of bis(chloromethyl) ether. Toxicol Appl Pharmacol 58:269-281
- * Mabey WR, Smith JH, Pod011 RT, et al. 1982. Aquatic fate process data for organic priority pollutants. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards. EPA 440/4-81-014. PB87-169090.
- * Maher KV, DeFonso IX. 1987. Respiratory cancer among chloromethyl

8. REFERENCES

ether workers. J Nat Cancer Inst 78:839-843.

Martin H, Worthing CR, eds. 1974. Pesticide manual. Basic information on the chemicals used as active components of pesticides. 4th ed. Worcester, England: British Crop Protection Council, 177.

McCallum RI, Woolley V, Petrie A. 1983. Lung cancer associated with chloromethyl methyl ether manufacture: an investigation at two factories in the United Kingdom. Brit J Ind Med 40:384-389.

* Mueller G, Norpoth K, Travenius SZM. 1981. Quantitative determination of bis(chloromethyl) ether (BCME) in the ppb range using portable air sample collectors. Int Arch Occup Environ Health 48:325-329.

* NIOSH. 1972a. Field survey of Dow Chemical Company chloromethyl ether facilities, Midland, MI. Cincinnati, OH: National Institute for Occupational Safety and Health. PB82-151598.

* NIOSH. 1972b. Field survey of Rohm and Haas Company Bridesburg Facilities Philadelphia, PA. Cincinnati, OH: National Institute for Occupational Safety and Health. PB82-162561.

NIOSH. 1973. Hazard review of bis(chloromethyl) ether. Cincinnati, OH: National Institute for Occupational Safety and Health. PB87-210779.

NIOSH. 1974. Survey of Burlington Industries, Inc. Burlington House Finishing Plant, Form Fabrics Plant, Durham Domestics Plant, Brookneal Finishing Plant. PB82-151077.

* NIOSH. 1977. Manual of Analytical Methods. Vol. 1. Method 213. Cincinnati, OH: National Institute for Occupational Safety and Health.

* NIOSH. 1986. NIOSH recommendations for occupational safety and health standards. Atlanta, GA: U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health. September, 1986.

* NLM. 1988. National Library of Medicine - chemline database printout for bis(chloromethyl) ether. August, 1988.

* Norpoth K, Mueller G, Zilius Z, et al. 1981. Sensitive spectrophotometric determination of carcinogenic alpha chloro ethers. Int Arch Occup Environ Health 49: 151-155.

8. REFERENCES

- NTP. 1985. National Toxicology Program. Fourth annual report on carcinogens. Summary 1985. Washington, DC: U.S. Department of Health and Human Services.
- OSHA. 1974. Occupational Safety and Health Administration, Department of Labor. Occupational Safety and Health Standards. Carcinogens. Federal Register. 39:3756-3796.
- *Pasternack BBS, Shore R, Albert RE. 1977. Occupational exposure to chloromethyl ethers. J Occup Med 19:741-746.
- Pepelko WE. 1984. Experimental respiratory carcinogenesis in small laboratory animals. Environ Research 33:144-188.
- *Ress JF. 1977. Tight control prevents exposure to bis(chloromethyl) ether. Occupational Health and Safety. May/June 1977:40-43.
- *Reznik G, Wagner HH, Atay Z. 1977. Lung cancer following exposure to bis(chloromethyl) ether: a case report. J Environ Pathol Toxicol 1:105-111.
- Roe FJC. 1985 Chloromethylation: three lung cancer deaths in young men. The Lancet 2:268.
- *Sakabe H. 1973. Lung cancer due to exposure to bis(chloromethyl) ether. Ind Health 11:145-148.
- Sax NI, Lewis RJ, eds. 1987. Hawley's condensed chemical dictionary. 11th edition. New York, NY: Van Nostrand Reinhold Co. 149.
- *Sellakumar AR, Snyder CA, Solomon JJ, et al. 1985. Carcinogenicity of formaldehyde and hydrogen chloride in rats. Toxicol Appl Pharmacol 81:401-406.
- *Sittig M. 1985. Handbook of toxic and hazardous chemicals and carcinogens. Park Ridge, NJ: Noyes Publications. 133-135.
- Sram RJ, Samkova I, Hola N. 1983. High-dose ascorbic prophylaxis in workers occupationally exposed to halogenated ethers. J Hyg Epidemiol Microbiol Immunol 27:305-318.

8. REFERENCES

- * Thiess AM, Hey W, Zeller H. 1973. Zur Toxikologie von Dichlordimethylaether-Verdacht auf kanzerogene Wirkung such beim Menschen. Zentralbl Arbeitsmed 23:97-102.
- Thomas DC, Whittemore AS. 1988, Methods for testing interactions, with applications to occupational exposures, smoking, and lung cancer. Am J Ind Med 13:131-147.
- * Tou JC, Kallos GJ. 1974. Kinetic study of the stabilities of chloromethyl methyl ether and bis(chloromethyl) ether in humid air. Anal Chem 46:1866-1869.
- * Tou JC, Westover LB, Sonnabend LF. 1974. Kinetic studies of bis(chloromethyl)ether hydrolysis by mass spectrometry. J Phys Chem 78:1096-1098.
- * Travenius SZM. 1982. Formation and occurrence of bis(chloromethyl) ether and its prevention in the chemical industry. Stand J Work Environ Health 8 (Suppl. 3): 1-86.
- * Union Carbide. 1968. Summary of acute toxicity and irritancy studies of bis(chloromethyl)ether. Union Carbide Corporation, Danbury, CT. Rpt 31-85; 1968.
- * USITC. 1987. Synthetic organic chemicals. United States production and sales. 1986. Washington, DC: U.S. International Trade Commission. Pub. 2009.
- Van Duuren BL. 1969. Carcinogenic epoxides, lactones, and halo-ethers and their mode of action. Ann NY Acad Sci 163:633-651.
- Van Duuren BL. 1980. Prediction of carcinogenicity based on structure, chemical reactivity and possible metabolic pathways. J Environ Pathol Toxicol 3:11-34.
- Van Duuren BL. 1989. Comparison of potency of human carcinogens: vinyl chloride, chloromethyl methyl ether and bis(chloromethyl)ether. Environ Res 49:143-151.
- Van Duuren BL, Van Duuren SB. 1988. Chemistry, reactivity and carcinogenicity of chloro ethers. In: Politzer P, Martin FJ, eds. Chemical carcinogens. New York, NY: Elsevier. 114-176.

8. REFERENCES

- *Van Duuren BL, Goldschmidt BM, Katz C, et al. 1968. Alpha-haloethers: a new type of alkylating carcinogen. Arch Environ Health 16:472-476.
- *Van Duuren BL, Sivak A, Goldschmidt BM, et al. 1969. Carcinogenicity of halo-ethers. J Nat Cancer Inst 43:481-486.
- *Van Duuren BL, Goldschmidt BM, Katz C, et al. 1972. Carcinogenicity of halo-ethers. 11. Structure-activity relationships of analogs of bis(chloromethyl) ether. J Nat Cancer Inst 48:1431-1439.
- *Weast RC, ed. 1985. CRC handbook of chemistry and physics. 66th ed. Boca Raton, FL: CRC Press.
- *Weiss W. 1976. Chloromethyl ethers, cigarettes, cough and cancer. J Occup Med 18:194-199.
- Weiss W. 1980. The cigarette factor in lung cancer due to chloromethyl ethers. J Occup Med 22:527-529.
- *Weiss W. 1982. Epidemic curve of respiratory cancer due to chloromethyl ethers. J Nat Cancer Inst 69:1265-1270.
- *Weiss W, Boucot KR. 1975. The respiratory effects of chloromethyl methyl ether. J Am Med Assoc 234:1139-1142.
- Weiss W. 1989. Lung cancer due to chloromethyl ethers: bias in cohort - definition. J Occup Med 31:102-105.
- *Weiss W, Moser RL, Auerbach O. 1979. Lung cancer in chloromethyl ether workers. Am Rev Respir Disease 120:1031-1037.
- Wilbourn J. 1978. Evaluation of the carcinogenicity of chemicals: a review of the monograph program of the International Agency for Research on Cancer (1971-1977). Cancer Res 38:877-885.
- Wilbourn J, Haroun L, Haseltine E, et al. 1986. Response of experimental animals to human carcinogens: an analysis based upon the IARC Monographs Programme. Carcinogenesis 7:1853-1863.
- Windholz M, ed. 1983. The Merck index. Tenth edition. Rahway, NJ: Merck & Co., Inc.

8. REFERENCES

* Zajdela F, Croisy A, Barbin A, et al. 1980. Carcinogenicity of chloroethylene oxide, an ultimate reactive metabolite of vinyl chloride, and bis(chloromethyl) ether after subcutaneous administration and in initiation-promotion experiments in mice. *Cancer Res* 40:352-356.