

8. REFERENCES

- * Abrahams RH. 1980. Recent studies with workers exposed to ethylene oxide. In: Jorkasky JF, ed. Safe use of ethylene oxide. Proceedings of the Educational Seminar. Washington DC: Health Industries Manufacturers Association, 27-38, 211-220. HIMA Report No. 80-4.
 - * ACGIH. 1986. Documentation of the threshold limit values and biological exposure indices. 5th ed. American Conference of Governmental Industrial Hygienists. Cincinnati, OH.
 - * Alexander M. 1977. Introduction to soil microbiology. 2nd ed. New York, NY: John Wiley & Sons, 207.
 - * Alomar A, Camarasa JM, Noguera J, et al. 1981. Ethylene oxide dermatitis. Contact Dermatitis 7:205-207.
 - * Amoores JE, Hautala E. 1983. Odor as an aid to chemical safety: Odor thresholds compared with threshold limit values and volatilities for 214 industrial chemicals in air and water dilution. J Appl Toxicol 3:272-290.
 - * Anbar M, Neta P. 1967. A compilation of specific biomolecular rate constants for the reactions of hydrated electrons, hydrogen atoms and hydroxyl radicals with inorganic and organic compounds in aqueous solution. Int J Appl Radiat Isot 18:493-523.
- Anderson SR. 1971. Ethylene oxide toxicity: A study of tissue reactions to retained ethylene oxide. J Lab Clin Med 77:346-356.
- Anonymous. 1977. NIOSH asks for better control of ethylene oxide. Association of Operating Room Nurses J 26:1152-1156.
- Anonymous. 1979. Has any recent research shown ethylene or ethylene oxide to be carcinogenic? If so, in what concentrations? Br Med J 1:1194.
- Anonymous. 1986. Ethylene oxide- -a human carcinogen? [Editorial]. Lancet 2:201-202.
- * APHA. 1985 Method 503B. Standard methods for the examination of water and wastewater. 16th ed. Washington, DC: -American Public Health Association, 498

* = cited in text.

8. REFERENCES

- * Appelgren L, Eneroth G, Grant C. 1977. Studies on ethylene oxide: Whole body autoradiography and dominant lethal test in mice. *Proc Eur Soc Toxicol* 18:315-317.
- Ashby J, Richardson, CR. 1985. Tabulation and assessment of 113 human surveillance cytogenetic studies conducted between 1965 and 1984. *Mutat Res* 154:111-133.
- Austin SB. 1987. Carcinogenicity of ethylene oxide. *JAMA* 258:1733.
- Austin SG, Sielken RL Jr. 1988. Issues in assessing the carcinogenic hazards of ethylene oxide. *J Occup Med* 30:236-245.
- Back KC, Thomas AA, MacEwen JD. 1972. Reclassification of materials listed as transportation health hazards. Washington, DC: Department of Transportation, Office of Hazardous Materials. NTIS No. PB 214270.
- * Bailey E, Farmer PB, Shuker DE. 1987. Estimation of exposure to alkylating carcinogens by the GC-MS determination of adducts to hemoglobin and nucleic acid bases in urine. *Arch Toxicol* 60:187-191.
- Bainova A. 1986. New data on the biological activity of ethylene oxide. *Sovrem Med* 37:11-16. (Russian)
- * Barnard JA, Lee RK. 1972. Combustion of n-pentane in a shock tube. *Combustion Sci and Technol* 6:143-150.
- * 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: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-86/032a.
- Beliles RP, Parker JC. 1987. Risk assessment and oncodynamics of ethylene oxide as related to occupational exposure. *Toxicol Ind Health* 3:371-382.
- Berck B. 1975. Analysis of fumigants and fumigant residues. *J Chromatogr Sci* 13:256-267.
- Berg GL, ed. 1984. Farm chemicals handbook 1984. Willoughby, OH: Meister Publishing Co., C97.
- Binder H. 1974. [Ethylene oxide and chlorohydrin in tobacco and its smoke.] *Fachliche Mitt Oesterr Tabakregie* 15:294-301. (German)

8. REFERENCES

- Binder H, Lindner W. 1972. [Determination of ethylene oxide in the smoke of treated and untreated cigarettes.] Fachliche Mitt Oesterr Tabakregie 13:215-220. (German)
- * Bird M. 1952. Chemical production of mutations in Drosophila: Comparison of techniques. J of Genet 50:480-485.
- * Blackwood JD Jr, Erskine EB. 1938. Carboxide poisoning. U.S. Navy Med Bull 36:44-45.
- * Bogan DJ, Hand CW. 1978. Absolute rate constant, kinetic isotope effect, and mechanism of the reaction of ethylene oxide with oxygen (³P) atoms. J Phys Chem 82:2067-2073.
- * Bogyo DA, Lande SS, Meylan WM, et al. 1980. Investigation of selected potential environmental contaminants: Epoxides. Report to U. S. Environmental Protection Agency, Office of Toxic Substances, Washington, DC, by Syracuse Research Corporation, Syracuse, NY. EPA-560/11-80-005. NTIS No. PB80-183197.
- * Bond EJ, Dumas T. 1982. A portable gas chromatograph for macro- and microdetermination of fumigants in the field. J Agric Food Chem 30:986-988.
- Bridie AL, Wolff CJ, Winter M. 1979. BOD and COD of some Petrochemicals. Water Res 13:627-630.
- Brodzinsky RB, Singh HB. 1983. Volatile organic chemicals in the atmosphere: An assessment of available data. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA-600/3-83-027(A).
- * Brown AM, Bruch C, Jackson E, et al. 1979. Increased mutation frequency due to ethylene oxide absorbed to plastics. In Vitro 15:220-221.
- * Bruch C, Koesterer M. 1961. The microbicidal activity of gaseous propylene oxide and its application to powdered or flaked foods. J Food Sci 26:428.
- * Bruch CW. 1973. Factors determining choice of sterilizing procedure. In: Phillips GB, Miller WS, eds. Industrial sterilization. Durham, NC: Duke University Press, 119-123.
- * Brugnone F, Perbellini L, Faccini G, et al. 1985. Concentration of ethylene oxide in the alveolar air of occupationally exposed workers. Am J Ind Med 8:67-72.

8. REFERENCES

- * Brugnone F, Perbellini L, Faccini GB, et al. 1986. Ethylene oxide exposure: Biological monitoring by analysis of alveolar air and blood. *Int Arch Occup Environ Health* 58:105-112.
- CCTTE. 1988. Computerized listing of chemicals being tested for toxic effects. United Nations Environment Programme, International Programme on Chemical Safety, International Register of Potentially Toxic Chemicals. Geneva, Switzerland.
- Clansky KB, ed. Chemical guide to the OSHA hazard communication standard. Burlingame, CA: Roytech Publications, Inc., 50, B-3, C-7, E-4, F-4.
- Clare MG, Dean BJ, de Jong G, et al. 1985. Chromosome analysis of lymphocytes from workers at an ethylene oxide plant. *Mutat Res* 156:109-116.
- Clarke CP, Davidson WL, Johnston JB. 1966. Haemolysis of blood following exposure to an Australian manufactured plastic tubing sterilized by means of ethylene-oxide gas. *Aust NZ J Surg* 36:53-56.
- CLC. 1988. Coordinated list of chemicals. U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC.
- * CLPSD. 1988. Contract Laboratory Program Statistical Database. Viar and Company, Management Services Division, Alexandria, VA. December 1988.
- * Collins M, Barker NJ. 1983. Direct monitoring of ambient air for ethylene oxide and ethylene dibromide. *Am Lab* (July):72-81.
- * Conway RA, Waggy GT, Spiegel MH, et al. 1983. Environmental fate and effects of ethylene oxide. *Environ Sci Technol* 17:107-112.
- * Crystal HA, Schaumburg HH, Grober E, et al. 1988. Cognitive impairment and sensory loss associated with chronic low-level ethylene oxide exposure. *Neurology* 38:567-569.
- * Cumming RB, Sega GA, Horton CY, et al. 1981. Degree of alkylation of DNA in various tissues of the mouse following inhalation exposure to ethylene oxide [Abstract]. *Environ Mutagen* 3:343.
- * Cumming RB, Michaud TA. 1979. Mutagenic effects of inhaled ethylene oxide in male mice [Abstract]. *Environ Mutagen* 1:166-167.
- * Cummins KJ, Schultz GR, Lee JS, et al. 1987. The development and evaluation of a hydrobromic acid-coated sampling tube for measuring occupational exposure to ethylene oxide. *Am Ind Hyg Assoc J* 48:563-573.

8. REFERENCES

- Darby TD. 1984. Pharmacokinetics in a safety evaluation of ethylene oxide. In: Inhospital ethylene oxide sterilization. Potential health effects, regulatory initiatives. Safe use. Arlington, VA: AAMI Technology Assessment Report No. 8-84, 11-14.
- * Dauvois C, Chaigneau M, Le Moan G. 1982. [Sterilization of dressings by ethylene oxide. I. Physisorption.] Ann Pharm Fr 40:125-132. (French)
- * De Bont JA, Albers RA. 1976. Microbial metabolism of ethylene. Antonie van Leeuwenhoek 42:78-80.
- De Bont JA, Harder W. 1978. Metabolism of ethylene by Mycobacterium E 20. FEMS Microbial Lett 3:89-93.
- DeGarmo P, Varnas V. 1983. Ethylene oxide: A hazard to health care workers. Oreg Nurse 48:11-13.
- Deleixhe A, Balsat A, Laurent C. 1986. [Acute ethylene oxide poisoning. Apropos of five cases.] Arch Belg Med Sot 44:478-488. (French)
- Denk B, Filser JG, Oesterle D, et al. 1988. Inhaled ethylene oxide induces preneoplastic foci in rat liver. J Cancer Res Clin Oncol 114:35-38.
- * Dunkelberg H. 1982. Carcinogenicity of ethylene oxide and 1,2-propylene oxide upon intragastric administration to rats. Br J Cancer 46:924-933.
- Dunkelberg H. 1987. [Carcinogenic activity of ethylene oxide and its reaction products 2-chloroethanol, 2-bromoethanol, ethylene glycol and diethylene glycol. III. Research on ethylene glycol and diethylene glycol for carcinogenic effects.] Zentralbl Bakteriologie Mikrobiologie Hygiene [B] 183:358-365. (German)
- ECETOC. 1982. Technical report no. 5: Toxicity of ethylene oxide and its relevance to man. Brussels, Belgium: European Chemical Industry Ecology and Toxicology Centre.
- ECETOC. 1984. Technical report no. 11: Ethylene oxide toxicology and its relevance to man: An updating of ECETOC technical report no. 5. Brussels, Belgium: European Chemical Industry Ecology and Toxicology Centre.
- Echter E. 1972. [A few clinical examples: Part 2. Clinical incidences following the use of ethylene oxide.] Ann Anesthesiol Fr 13:376. (French)

9. REFERENCES

- Ehrenberg L. 1979. Risk assessment of ethylene oxide and other compounds. In: McElheny VK, Abrahamson S, eds. Banbury report: 1. Assessing chemical mutagens: The risk to humans. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory, 157-190.
- * Ehrenberg L, Gustafsson A, Lundqvist U. 1956. Chemically induced mutation and sterility in barley. Acta Chem Scand 10:492-494.
- * Ehrenberg L, Hiesche KD, Osterman-Golkar S, et al. 1974. Evaluation of genetic risks of alkylating agents: Tissue doses in the mouse from air contaminated with ethylene oxide. Mutat Res 24:83-103.
- * Embree JW, Lyon JP, Hine CH. 1977. The mutagenic potential of ethylene oxide using the dominant-lethal assay in rats. Toxicol Appl Pharmacol 40:261-267.
- * Environment Canada. 1985. Ethylene oxide: Environmental and technical information for problem spills. Ottawa, Ontario: Environmental Protection Service, Technical Services Branch.
- * EPA. 1980. U.S. Environmental Protection Agency. Federal Register. 45:33084-33133.
- * EPA. 1982a. Chemical hazard information profile: Draft report: Ethylene oxide. Cas No. 75-21-8. Washington, DC: U.S. Environmental Protection Agency.
- * EPA. 1982b. U.S. Environmental Protection Agency. Federal Register. 47:26992-27008.
- * EPA. 1984a. U.S. Environmental Protection Agency. Federal Register 49:200-205.
- * EPA. 1984b. Health and environmental effects profile for oxirane. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA/600/X-84/222. NTIS No. PB88-162318.
- * EPA. 1985a. Health assessment document for ethylene oxide. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA-600/8-84-009F.
- * EPA. 1985b. U.S. Environmental Protection Agency: Part II. Federal Register. 50:13456-13522.
- EPA. 1985c. U.S. Environmental Protection Agency. Federal Register. 50:40286-40289.

8. REFERENCES

- * EPA. 1986. Reference values for risk assessment. Final draft. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Solid Waste. ECAO-CIN-477.

- EPA. 1987. Toxic air pollutant/source crosswalk: A screening tool for locating possible sources emitting toxic air pollutants. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. EPA-450/4-87-023a.

- * EPA. 1987a. U.S. Environmental Protection Agency: Part II. Federal Register. 52:8140.

- * EPA. 1987b. U.S. Environmental Protection Agency: Part II. Federal Register. 52:13378-13410.

- * EPA. 1988. U.S. Environmental Protection Agency: Part V. Federal Register. 53:38642-38654.

- * EPA. 1989. U.S. Environmental Protection Agency. Part II. Federal Register 54:1056-1119.

- * Estrin WJ, Cavalieri SA, Wald P, et al. 1987. Evidence of neurologic dysfunction related to long-term ethylene oxide exposure. Arch Neurol 44:1283-1286.

- * Farmer PB, Bailey E, Gorf SM, et al. 1986. Monitoring human exposure to ethylene oxide by the determination of haemoglobin adducts using gas chromatography-mass spectrometry. Carcinogenesis 7:637-640.

- * Filser JG, Bolt HM. 1984. Inhalation pharmacokinetics based on gas uptake studies: VI. Comparative evaluation of ethylene oxide and butadiene monoxide as exhaled reactive metabolites of ethylene and 1,3-butadiene in rats. Arch Toxicol 55:219-223.

- * Finelli PF, Morgan TF, Yaar I, et al. 1983. Ethylene oxide-induced polyneuropathy: A clinical and electrophysiologic study. Arch Neurol 40:419-421.

- Fisher AA. 1984. Ethylene oxide dermatitis. Cutis 34:20,22,24.
- Flores GH. 1983. Controlling exposure to alkene oxides. Chem Eng Prog 79:39-43.

- * Flores GH. 1983. Controlling exposure to alkene oxides. Chem Eng Prog 79:39-43.

- Flury F. 1930. [Uber athylenoxyd (T-gas)]. Naunyn-Schmiedeberg Arch Exp Pathol Pharmacol 157:107-108. (German)

8. REFERENCES

- * Fritz B, Lorenz K, Steinert W, et al. 1982. Laboratory kinetic investigations of the tropospheric oxidation of selected industrial emissions. Commission of the European Communities, 192-202.
- Fukushima T, Abe K, Nakagawa A, et al. 1986. Chronic ethylene oxide poisoning in a factory manufacturing medical appliances. *J Sot Occup Med* 36:118-123.
- Gallo FP. 1978. [Methyl bromide, ethylene oxide and ethylene formaldehyde: Biological and toxicological problems and problems related to treatment of library materials.] *Nuovi Ann Ig Microbial* 29:151-82. (Italian)
- * Galloway SM, Berry PK, Nichols WW, et al. 1986. Chromosome aberrations in individuals occupationally exposed to ethylene oxide, and in a large control population. *Mutat Res* 170:55-74.
- * Gardner MJ, Coggon D, Pannett B, et al. 1989. Workers exposed to ethylene oxide: A follow up study. *Br J Ind Med* 46:860-865.
- Garman RH, Snellings WM, Maronpot RR. 1985. Brain tumors in F344 rats associated with chronic inhalation exposure to ethylene oxide. *Neurotoxicology* 6:117-138.
- * Garry VF, Hozier J, Jacobs D, et al. 1979. Ethylene oxide: Evidence of human chromosomal effects. *Environ Mutagen* 1:375-382.
- Garry VF, Wiencke JK, Nelson RL. 1984. Ethylene oxide and some factors affecting the mutagen sensitivity of sister chromatid exchange in humans. *Basic Life Sci* 29(Pt B):975-985.
- * Generoso WM, Cain KT, Hughes LA, et al. 1986. Ethylene oxide dose and dose-rate effects in the mouse dominant-lethal test. *Environ Mutagen* ad-7.
- * Generoso WM, Rutledge JC, Cain KT, et al. 1988. Mutagen-induced fetal anomalies and death following treatment of females within hours after mating. *Mutat Res* 199:175-181.
- Gennart JP, Dutrieux M, Lauwerys R. 1983. Toxicity of ethylene oxide. Review of the literature. *Arch Mal Prof* 44:269-274.
- Gerhardt U, Ladd Effio JC. 1983. [Ethylene oxide residue in spices.] *Fleisch Wirtsch* 63:606-608. (German)

8. REFERENCES

- Glaser ZR. 1977. Special occupational hazard review with control recommendations for the use of ethylene oxide as a sterilant in medical facilities. Rockville, MD: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health. DHEW (NIOSH) Publication No. 77-200.
- * Glaser ZR. 1979. Ethylene oxide: Toxicology review and field study results of hospital use. *J Environ Path Toxicol* 2:173-207.
- * Golberg L. 1986. Hazard assessment of ethylene oxide. Boca Raton, FL: CRC Press.
- * Gomer R, Noyes WA Jr. 1950. Photochemical studies. XLII. Ethylene oxide. *J Am Chem Soc* 72:101-108.
- Gosselin RE, Smith RP, Hodge HC, et al. 1984. Clinical toxicology of commercial products. 5th ed. Baltimore, MD: Williams and Wilkins, II-97.
- Gramiccioni L, Esposito G, Arena C, et al. 1982. [Ethylene oxide: toxicity, hazard, and retention in sterilized materials.] *Rass Chim* 34:109-115. (Italian)
- Grammer LC, Paterson BF, Roxe D, et al. 1985. IgE against ethylene oxide-altered human serum albumin in patients with anaphylactic reactions to dialysis. *J Allergy Clin Immunol* 76:511-514.
- Greaves Walker WJ, Greeson CE. 1932. The toxicity of ethylene oxide. *J Hyg* 32:409-416.
- * Greenberg HL, Ott MG, Shore RE. 1990. Men assigned to ethylene oxide production or other ethylene oxide related chemical manufacturing: A mortality study. *Br J Ind Med* 47:000-000.
- Greife A, Morawetz J, Stayner L. 1986. Industrywide studies report of walk-through survey at Johnson and Johnson (Ethicon), Somerville, NJ. Cincinnati, OH: National Institute for Occupational Safety and Health, Centers for Disease Control. NTIS No. PB87-164406.
- * Gross JA, Haas ML, Swift TR. 1979. Ethylene oxide neurotoxicity: Report of four cases and review of the literature. *Neurology* 29:978-983.

8. REFERENCES

- Gunter BJ. 1987a. Health hazard evaluation report: HETA-87-365-1848, Memorial Hospital of Southern Oklahoma, Ardmore, Oklahoma. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- Gunter BJ, Daniels WJ. 1987b. Health hazard evaluation report: HETA 87-013-1803, West Seattle Community Hospital, Seattle, Washington. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- * Hackett PL, Brown MG, Buschbom RL, et al. 1982. Teratogenic study of ethylene and propylene oxide and n-butyl acetate. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health. NTIS No. PB83-258038.
- * Hanifin JM. 1971. Ethylene oxide dermatitis [Letter]. J Am Med Assoc 217:213.
- * Hansch C, Leo A. 1979. Substituent constants for correlation analysis in chemistry and biology. New York, NY: John Wiley & Sons, Inc., 176.
- * Hansen JP, Allen J, Brock K, et al. 1984. Normal sister chromatid exchange levels in hospital sterilization employees exposed to ethylene oxide. J Occup Med 26:29-32.
- * Hardin BD, Niemeier RW, Sikov MR, et al. 1983. Reproductive toxicologic assessment of the epoxides ethylene oxide, propylene oxide, butylene oxide, and styrene oxide. Stand J Work Environ Health 9:94-102.
- Hatch GG, Conklin PM, Christensen CC, et al. 1986. Mutation and enhanced virus transformation of cultured hamster cells by exposure to gaseous ethylene oxide. Environ Mutagen 8:67-76.
- Hattis D. 1987. A pharmacokinetic/mechanism-based analysis of the carcinogenic risk of ethylene oxide. Report to U.S. National Institute for Occupational Safety and Health, by Massachusetts Institute of Technology, Center for Technology, Policy and Industrial Development, Cambridge, MA. NTIS No. PB88-188784.
- * Hemminki K, Mutinen P, Saloniemä I, et al. 1982. Spontaneous abortions in hospital staff engaged in sterilizing instruments with chemical agents. Br Med J 285:1461-1463.

8. REFERENCES

- Hemminki K, Mutanen P, Niemi M-L. 1983. (Letter to editor). *Br Med J* 286:1976-1977.
- Henderson PT, van Doorn R, Leijdekkers CM, et al. 1984. Excretion of thioethers in urine after exposure to electrophilic chemicals. *IARC Sci Publ* 59:173-187.
- Hertz-Picciotto I, Neutra RR, Collins JF. 1987. Ethylene oxide and leukemia. *JAMA* 257:2290.
- Hine C, Rowe VK, White ER, et al. 1981. Epoxy compounds. In: Clayton GD, Clayton FE, eds. 1981. *Patty's industrial hygiene and toxicology*. 3rd ed. Vol. 2A: Toxicology. New York, NY: John Wiley and Sons, 2166-2257.
- * Hogstedt C, Malmqvist N, Wadman B. 1979. Leukemia in workers exposed to ethylene oxide. *JAMA* 241:1132-1133.
- Hogstedt C, Aringer L, Gustavsson A. 1984. [Ethylene oxide and cancer-review of the literature and follow-up of two studies.] Solna, Sweden: Arbetarskyddsstyrelsen, Publikationsservice. (Swedish)
- * Hogstedt C, Aringer L, Gustavsson A. 1986. Epidemiologic support for ethylene oxide as a cancer-causing agent. *JAMA* 255:1575-1578.
- * Hollingsworth RL, Rowe VK, Oyen F, et al. 1956. Toxicity of ethylene oxide determined on experimental animals. *AMA Archives of Industrial Health* 13:217-227.
- Honkanen E, Makela P, Bjorksten F, et al. 1987. [Ethylene oxide and hemodialysis anaphylaxis.] *Duodecim* 103:694-699. (Swedish)
- * HSDB. 1988. Hazardous Substances Data Bank. National Library of Medicine, National Toxicology Information Program, Bethesda, MD. December 1988.
- * Hunt WF Jr, Faoro RB, Freas W. 1986. Interim data base for state and local air toxic volatile organic chemical measurements. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. EPA 450/4-86-012. NTIS No. PB87-168779.
- * IARC. 1976. Monographs on the evaluation of carcinogenic risk of chemicals to man: Cadmium, nickel, some epoxides, miscellaneous industrial chemicals and general considerations of volatile anaesthetics. Vol. II. International Agency for Research on Cancer, Lyon, France, 157-167.

8. REFERENCES

- IARC. 1982. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans. Vol. 1-29 (Supplement 4): Chemicals, industrial processes and industries associated with cancer in humans. World Health Organization, Lyon, France.
- * IARC. 1987. IARC monographs on the evaluation of carcinogenic risks to humans. Vol. 1-42 (Supplement 7): Overall evaluations of carcinogenicity: An updating of IARC monographs. World Health Organization, Lyon, France.
- * IRIS. 1989. Integrated Risk Information System. U.S. Environmental Protection Agency. Washington, D.C.
- IRPTC. 1989. IRPTC data profile: Ethylene oxide. International Register of Potentially Toxic Chemicals, United Nations Environment Programme. Geneva, Switzerland January 1989.
- * Jacobson KH, Hackley EB, Feinsilver L. 1956. The toxicity of inhaled ethylene oxide and propylene oxide vapors. *AMA Arch Ind Health* 13:237-244.
- * Jaffe S. 1971. Photooxidation of ethylene oxide and propionaldehyde in the presence of NO₂ and light. In: Englund HM, Berry WT, eds. *Proceedings of the Second International Clean Air Congress*. New York, NY: Academic Press, 316-324.
- * Jana MK, Roy K. 1975. Effectiveness and efficiency of ethyl methanesulfonate and ethylene oxide for the induction of mutations in rice. *Mutat Res* 28:211-215.
- Jarvinen A. 1979. [Cancer diagnosis in Sweden. Ethylene oxide's health hazard continually investigated in Finland.] *Sairaanhoitaja* 55:12-14. (Swedish)
- * Jay WM, Swift TR, Hull DS. 1982. Possible relationship of ethylene oxide exposure to cataract formation. *Am J Ophthalmol* 93:727-732.
- Jones-Price C, Marks TA, Ledoux TA, et al. 1983. Teratologic evaluation of ethylene oxide (Cas No. 75-21-8) in New Zealand white rabbits. Laboratory study: August 21, 1979 to December 2, 1980. Research Triangle Park, NC: National Institute of Environmental Health Sciences. NTIS No. PB83-242016.
- * Joshi SB, Dodge MC, Bufalini JJ. 1982. Reactivities of selected organic compounds and contamination effects. *Atmos Environ* 16:1301-1310.

8. REFERENCES

- * Joyner RE. 1964. Chronic toxicity of ethylene oxide: A study of human responses to long-term low-level exposures. Arch Environ Health 8:700-710.
- Karellova J, Jablonicka A, Vargova M. 1987. Results of cytogenetic testing of workers exposed to ethylene oxide. J Hyg Epidemiol Microbiol Immunol 31:119-126.
- * Kelsey KT, Wiencke JK, Eisen EA, et al. 1988. Persistently elevated sister chromatid exchanges in ethylene oxide-exposed primates: The role of a subpopulation of high frequency cells. Cancer Res 48:5045-5050.
- * Kiesselbach N, Ulm K, Lange HJ, et al. 1990. A multicentre mortality study of workers exposed to ethylene oxide. Br J Ind Med 47:182-188.
- * Kikuchi H, Nakamura A, Tsuji K. 1988. Gas chromatographic determination with electron capture detection of residual ethylene oxide in intraocular lenses. J Assoc Off Anal Chem 71:1057-1062.
- * Kligerman AD, Erexson GL, Phelps ME, et al. 1983. Sister-chromatid exchange induction in peripheral blood lymphocytes of rats exposed to ethylene oxide by inhalation. Mutat Res 120:37-44.
- Klonne DR, Nachreiner DJ, Dodd DE, et al. 1987. Acute and two-week inhalation toxicity studies on aerosols of selected ethylene oxide/propylene oxide polymers in rats. Fundam Appl Toxicol 9:773-784.
- * Koga M, Hori H, Tanaka I. 1987. [Analysis of urinary metabolites of rats exposed to ethylene oxide.] Sangyo Ika Daigaku Zasshi 9:267-270.
- Kolman A, Naslund M, Calleman CJ. 1986. Genotoxic effects of ethylene oxide and their relevance to human cancer [Editorial]. Carcinogenesis (London) 7:1245-1250.
- * Kolmark HG, Kilbey BJ. 1968. Kinetic studies of mutation induction by epoxides in Neurospora crassa. Mol Gen Genet 101:89-98.
- * Kuzuhara S, Kanazawa I, Nakanishi T, et al. 1983. Ethylene oxide polyneuropathy. Neurology 33:377-380.
- * LaBorde JB, Kimmel CA. 1980. The teratogenicity of ethylene oxide administered intravenously to mice. Toxicol Appl Pharmacol 56:16-22.
- * Lambert B, Lindblad A. 1980. Sister chromatid exchange and chromosome aberrations in lymphocytes of laboratory personnel. J Toxicol Environ Health 6:1237-1243.

8. REFERENCES

- Landrigan PJ, Meinhardt TJ, Gordon J, et al. 1984. Ethylene oxide: An overview of toxicologic and epidemiologic research. *Am J Ind Med* 6:103-115.
- Laurent CH, Frederic J, Marechal F. 1982. Etude des effets cytogenetiques d'intoxication a l'oxyde d'ethylene. *CR Soc Biol (Paris)* 176:733-735. (French)
- * Lee, WR. 1980. Relation of mutation frequency to dose of ethylene oxide in germ cells. Submitted to South Carolina Pesticides Epidemiologic Study Center, Preventive Medicine Division, Department of Family Practice, Medical University of South Carolina.
- Lemke HD. 1987. Mediation of hypersensitivity reactions during hemodialysis by IgE antibodies against ethylene oxide. *Artif Organs* 11:104-110.
- Lewis SE, Barnett LB, Felton C, et al. 1986. Dominant visible and electrophoretically expressed mutations induced in male mice exposed to ethylene oxide by inhalation. *Environ Mutagen* 8:867-872.
- * Long FA, Pritchard JG. 1956. Hydrolysis of substituted ethylene oxides in H₂O¹⁸ solutions. *J Am Chem Soc* 78:2663-2667.
- * Lynch DW, Lewis TR, Moorman WJ, et al. 1984a. Effects on monkeys and rats of long-term inhalation exposure to ethylene oxide: Major findings of the NIOSH study. In: *Inhospital ethylene sterilization. Current issues in ETO toxicity and occupational exposure. AAMI Technology Assessment Report No. 8-84.* Arlington VA: Association for the Advancement of Medical Instrumentation, 7-10.
- * Lynch DW, Lewis TR, Moorman WJ, et al. 1984b. Carcinogenic and toxicologic effects of inhaled ethylene oxide and propylene oxide in F344 rats. *Toxicol Appl Pharmacol* 76:69-84.
- Manware RA, Fell M. 1984. Current status of Occupational Safety and Health Administration regulation of ethylene oxide. In: *Inhospital ethylene oxide sterilization. Potential health effects, regulatory initiatives, safe use. AAMI Technology Assessment Report No. 8-84,* Arlington VA: Association for the Advancement of Medical Instrumentation, 37-41.
- Markel HL Jr. 1988. Health hazard evaluation report no. HETA-87-210-1862, Earl K. Long Memorial Hospital, Baton Rouge, Louisiana. Cincinnati, OH: Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.

8. REFERENCES

- * Martis L, Kroes R, Darby TD, et al. 1982. Disposition kinetics of ethylene oxide, ethylene glycol, and 2-chlorethanol in the dog. *J Toxicol Environ Health* 10:847-856.
- * Matsuoka M. 1988. [Effects of chronic exposure of ethylene oxide, especially on heme metabolism.] *Sangyo Ika Daigaku Zasshi (J UOEH)* 10:77-88. (Japanese)
- Mattia MA. 1983. Hazards in the hospital environment. The sterilants: ethylene oxide and formaldehyde. *Am J Nurs* 83:240-243.
- * McDonald TO, Kasten K, Hervey R. 1977. Acute ocular toxicity for normal and irritated rabbit eyes and subacute ocular toxicity for ethylene oxide, ethylene chlorohydrin, and ethylene glycol. *Bull Parenter Drug Assoc* 31:25-32.
- * McKelvey JA, Zemaitis MA. 1986. The effect of ethylene oxide exposure on tissue glutathione levels in rats and mice. *Drug Chem Toxicol* 9:51-66.
- * McLaughlin RS. 1946. Chemical burns of the human cornea. *Am J Ophthalmol* 29:1355-1362.
- * McNally ME, Wheeler JR. 1988. Supercritical fluid extraction coupled with supercritical fluid chromatography for the separation of sulfonylurea herbicides and their metabolites from complex matrices. *J Chromatogr* 435:63-71.
- Meinhardt T, Carrano A, Moore D, et al. 1985. Cytogenetic study of workers exposure to ethylene oxide: Analysis of the chromosomal aberration data and overall conclusions from the analyses of sister chromatid exchanges and chromosomal aberrations. Cincinnati, OH: U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health. No. 00156828.
- * Meister RT, ed. 1988. *Farm chemicals handbook*. 74th ed. Willoughby, OH: Meister Publishing Co., C96.
- * Michael LC, Pellizzari ED, Wiseman RW. 1988. Development and evaluation of a procedure for determining volatile organics in water. *Environ Sci Technol* 22:565-570.
- * Migliore L, Rossi AM, Loprieno N. 1982. Mutagenic action of structurally related alkene oxides on Schizosaccharomyces nombe: The influence, 'in vitro', of mouse-liver metabolizing system. *Mutat Res* 102:425-437.

8. REFERENCES

- Morawetz J, Steenland K. 1987. Industrywide studies report of walkthrough survey of Schilling, McCormick and Company, Incorporated, Salinas, CA. Cincinnati, OH: National Institute for Occupational Safety and Health, Centers for Disease Control. NTIS No. PB87-164398.
- * Morgan RW, Claxton KW, Divine BJ, et al. 1981. Mortality among ethylene oxide workers. *J Occup Med* 23:767-770.
- * Nakashima K, Furutani A, Higashi K, et al. 1987. Glutathione contents in rat livers after acute and chronic exposure to ethylene oxide. *Sangyo Ika DaigaKu Zasshi* 9:355-359.
- * NAS/NRC. 1989. Biologic markers in reproductive toxicology. Washington, DC: National Academy of Sciences, National Research Council, National Academy Press.
- * NATICH. 1988. NATICH data base report on state, local and EPA air toxic activities. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, National Air Toxics Information Clearinghouse. EPA 450/5-88-007. NTIS No. PB89-106983.
- * NIOSH. 1977. NIOSH manual of analytical methods. 2nd ed. Part II: Standards completion program validated methods. Vol 3. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, S286-1-S286-9.
- * NIOSH. 1981. NIOSH current intelligence bulletin 35: Ethylene oxide (EtO): Evidence of carcinogenicity. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health. DHHS (NIOSH) Publication No. 81-130.
- * NIOSH. 1985a. Ethylene oxide: Method: 1607. In: NIOSH manual of analytical methods. 3rd ed. Vol. 1. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- * NIOSH. 1985b. NIOSH pocket guide to chemical hazards. Washington, DC: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- * NIOSH. 1987. Ethylene oxide: Method: 3702. In: NIOSH manual of analytical methods. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.

8. REFERENCES

- NIOSH. 1988. National occupational exposure survey. Cincinnati, OH: National Institute for Occupational Safety and Health.
- NIOSH. 1988. National occupational hazard survey. Cincinnati, OH: National Institute for Occupational Safety and Health.
- * NIOSH. 1988. NIOSH recommendations for occupational safety and health standards. MMWR Suppl 37:14. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- * N.J. Dept. of Health. 1986. Hazardous substance fact sheet. Trenton, NJ: N.J. Department of Health. CAS No. 75-21-8. DOT No. UN 1040.
- * NLM. 1988. Chemline. National Library of Medicine, Bethesda, MD. December 1988.
- NTP. 1985. Fourth annual report on carcinogens: Summary National Toxicology Program. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. NTP 85-002.
- * NTP. 1987. Toxicology and carcinogenesis studies of ethylene oxide (CAS No. 75-21-8) in B6C3F₁ mice (inhalation studies). National Toxicology Program. Technical report series no. 326. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health. NIH Publication No. 88-2582.
- * NTP. 1988a. National Toxicology Program: Fiscal year 1988 annual plan. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service.
- NTP. 1988b. National Toxicology Program: Review of current DHHS, DOE, and EPA research related to toxicology: Fiscal year 1988. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service.
- O'Leary RR, Guess WL. 1968a. The toxicogenic potential of medical plastics sterilized with ethylene oxide vapors. J Biomed Mater Res 2:297-311.
- O'Leary RK, Guess WL. 1968b. Toxicological studies on certain medical grade plastics sterilized by ethylene oxide. J Pharm Sci 57:12-17.
- O'Leary RR, Watkins WD, Guess WL. 1969. Comparative chemical and toxicological evaluation of residual ethylene oxide in sterilized plastics. J Pharm Sci 58:1007-1010.

8. REFERENCES

- * Ohnishi A, Inoue N, Yamamoto T, et al. 1986. Ethylene oxide neuropathy in rats: Exposure to 250 ppm. J Neurol Sci 74:215-221.
- * OSHA. 1988a. U.S. Department of Labor. Occupational Safety and Health Administration: Part IV. Federal Register. 53:1724-1737.
- * OSHA. 1988b. U.S. Department of Labor. Occupational Safety and Health Administration: Part IV. Federal Register. 53:11414-11438.
- OSHA. 1989. U.S. Department of Labor, Occupational Safety and Health Administration: Part III. Federal Register. 54:2332-2983.
- Perera F. 1987. Molecular epidemiology: A novel approach to the investigation of pollutant-related chronic disease. In: Draggan S, Cohrssen JJ, Morrison RE, eds. Environmental impacts on human health: The agenda for long-term research and development. New York, NY: Praeger Publishers, 61-88.
- * Pero RW, Widegren B, Hogstedt B, et al. 1981. In vivo and in vitro ethylene oxide exposure of human lymphocytes assessed by chemical stimulation of unscheduled DNA synthesis. Mutat Res 83:271-289.
- * Pfeiffer E, Dunkelberg H. 1980. Mutagenicity of ethylene oxide and propylene oxide and of the glycols and halohydrins formed from them during the fumigation of foodstuffs. Toxicology 18:115-118.
- * PHRED. 1988. Public Health Risk Evaluation Database. U.S. Environmental Protection Agency, Washington, DC. March 1988.
- Popp DM, Popp RA, Lock S, et al. 1986. Use of multiparameter analysis to quantitate hematological damage from exposure to a chemical (ethylene oxide). J Toxicol Environ Health 18:543-565.
- Prat-Marin A, Sanz-Gallen P. 1987, [Toxicological aspects of exposure to ethylene oxide.] Rev Saude Publica 21:523-528. (Spanish)
- Puskar MA, Hecker LH. 1989. Field validation of passive dosimeters for the determination of employee exposures to ethylene oxide in hospital product sterilization facilities. Am Ind Hyg Assoc J 50:30-36.
- Quint J. 1982. Toxicity of ethylene oxide with emphasis on carcinogenic, reproductive and genetic effects. Berkeley, CA: Department of Health Services/Department of Industrial Relations, Hazard Evaluation System and Information Service, State of California.
- * Rajendran S, Muthu M. 1981. Detection of acrylonitrile and ethylene oxide in air and fumigated foodstuffs. Bull Environ Contam Toxicol 27:426-431.

8. REFERENCES

- * Rannug U, Goethe R, Wachtmeister CA. 1976. The mutagenicity of chloroethylene oxide, chloroacetaldehyde, 2-chloroethanol and chloroacetic acid, conceivable metabolites of vinyl chloride. *Chem Biol Interact* 12:251-263.
- Rathbun RE, Tai DY. 1984. Comment on "Environmental fate and effects of ethylene oxide". *Environ Sci Technol* 18:133-134.
- Ribeiro LR, Salvadori DM, Pereira CA, et al. 1987. Activity of ethylene oxide in the mouse sperm morphology test. *Arch Toxicol* 60:331-333.
- Richmond GW, Abrahams RH, et al. 1985. An evaluation of possible effects on health following exposure to ethylene oxide. *Arch Environ Health* 40:20-25.
- Romano SJ, Renner JA. 1979. Analysis of ethylene oxide-worker exposure. *Am Ind Hyg Assoc J* 40:742-745.
- * Salinas E, Sasish L, Hall DH, et al. 1981. Acute ethylene oxide intoxication. *Drug Intell Clin Pharm* 15:384-386.
- * Sarto F, Cominato I, Pinton AM, et al. 1984a. Cytogenetic damage in workers exposed to ethylene oxide. *Mutat Res* 138:185-195.
- * Sarto F, Cominato I, Pinton AM, et al. 1984b. Workers exposed to ethylene oxide have increased incidence of sister chromatid exchange. *IARC Sci Publ* 59:413-419.
- Sax NI, Lewis RJ Sr. 1987. *Hawley's condensed chemical dictionary*. 11th ed. New York, NY: Van Nostrand Reinhold Company, 490.
- * Schroeder JM, Hoheneck M, Weis J, et al. 1985. Ethylene oxide polyneuropathy: Clinical Follow-up study with morphometric and electron microscopic findings in a sural nerve biopsy. *J Neurol* 232:83-90.
- * Scudamore KA, Heuser SG. 1971. Ethylene oxide and its persistent reaction products in wheat flour and other commodities: Residues from fumigation or sterilisation, and effects of processing. *Pestic Sci* 2:80-91.
- Segerback D. 1983. Alkylation of DNA and hemoglobin in the mouse following exposure to ethene and ethene oxide. *Chem Biol Interact* 45:139-151.
- * Sexton RJ, Henson, E. 1949. Dermatological injuries by ethylene oxide. *J Ind Hyg Toxicol* 31:297-300.

8. REFERENCES

- * Sexton RJ, Henson EV. 1950. Experimental ethylene oxide human skin injuries. *Ind Hyg Occup Med* 32:549-564.

Sheikh K. 1984. Adverse health effects of ethylene oxide and occupational exposure limits. *Am J Ind Med* 6:117-127.
- * Shupack JL, Andersen SR, Roman0 SJ. 1981. Human skin reactions to ethylene oxide. *J Lab Clin Med* 98:723-729.

Sittig M. 1985. Handbook of toxic and hazardous chemicals and carcinogens. 2nd ed. Park Ridge, NJ: Noyes Publications, 433-434.

Smyth HF Jr, Seaton J, Fischer L. 1941. The single dose toxicity of some glycols and derivatives. *J Ind Hyg Toxicol* 23:259-268.

Snellings WM, Pringle JL, Dorko JD, et al. 1979. Teratology and reproduction studies with rats exposed to 10, 33, or 100 ppm of ethylene oxide (ETO) [Abstract]. *Toxicol Appl Pharmacol* 48:A84.
- * Snellings WM, Maronpot RR, Zelenak JP, et al. 1982a. Teratology study in Fischer 344 rats exposed to ethylene oxide by inhalation. *Toxicol Appl Pharmacol* 64:476-481.
- * Snellings WM, Zelenak JP, Weil CS. 1982b. Effects on reproduction in Fischer 344 rats exposed to ethylene oxide by inhalation for one generation. *Toxicol Appl Pharmacol* 63:382-388.
- * Snellings WM, Weil CS, Maronpot RR. 1984a. A subchronic inhalation study of the toxicologic potential of ethylene oxide in B6C3F1 mice. *Toxicol Appl Pharmacol* 76:510-518.
- * Snellings WM, Weil CS, Maronpot RR. 1984b. A two-year inhalation study of the carcinogenic potential of ethylene oxide in Fischer-344 rats. *Toxicol Appl Pharmacol* 75:105-117.
- * SRC. 1982. Information profiles on potential occupational hazards: Epoxy compounds (non-cyclic). Syracuse Research Corporation, Center for Chemical Hazard Assessment, Syracuse, NY. SRC TR 81-637.
- * SRI. 1984. CEH manual of current indicators - supplemental data. Menlo Park, CA: SRI International, 300.5202 N-R, 248-249.

SRI. 1985. Directory of chemical producers: United States of America. Menlo Park, CA: SRI International, 572.

SRI. 1986, Directory of chemical producers: United States of America. Menlo Park, CA: SRI International, 645.

8. REFERENCES

- SRI. 1987. Directory of chemical producers: United States of America. Menlo Park, CA: SRI International, 628.
- SRI. 1987. Directory of chemical producers: United States of America: Supplement II. Menlo Park, CA: SRI International, 33.
- * SRI. 1988. Directory of chemical producers: United States of America. Menlo Park, CA: SRI International, 614.
- Star EG. 1980. [Ethylene oxide residues and aeration time after use of modern heated aerators.] Zentralbl Bakteriol [B] 170:539-547. (German)
- Stayner L, Morawetz J, Schober S. 1986. Industrywide studies report: A walk-through survey of Bristol-Myers Company, Industrial Division, Syracuse, New York. Cincinnati, OH: National Institute for Occupational Safety and Health, Centers for Disease Control. NTIS No. PB87-164349.
- * Stolley PD, Soper KA, Galloway SM, et al. 1984. Sister-chromatid exchanges in association with occupational exposure to ethylene oxide. Mutat Res 129:89-102.
- * Tan EL, Cumming RB, Hsie AW. 1981. Mutagenicity and cytotoxicity of ethylene oxide in the CHO/HGPRT system. Environ Mutagen 3:683-686.
- * Tanooka H. 1979. Application of Bacillus subtilis spores in the detection of gas mutagens: A case of ethylene oxide. Mutat Res 64:433-435.
- * Taylor JS. 1977. Dermatologic hazards from ethylene oxide. Cutis 19:189-192.
- * Tardif R, Goyal R, Brodeur J, et al. 1987. Species differences in the urinary disposition of some metabolites of ethylene oxide. Fundam Appl Toxicol 9:448-453.
- * Thiess AM. 1963. [Observations on the health hazards of ethylene oxide.] Archiv Toxiko 20:127-140. (German)
- * Thiess AM, Schwegler H, Fleig I, et al. 1981. Mutagenicity study on workers exposed to alkene oxides (ethylene oxide/propylene oxide) and derivatives. J Occup Med 23:343-347.
- Thomson, WT. 1979. Agricultural chemicals-book III: Miscellaneous chemicals. Fresno, CA. Thomson Publications.
- TPCDB. 1988. Testing Priority Committee Data Base. U.S. Environmental Protection Agency, Office of Toxic Substances, Washington, DC.

8. REFERENCES

- * Tyler TR. 1983. Metabolism study on ethylene oxide in conjunction with dominant lethal test. Carnegie Mellon Institute of Research, Pittsburgh, PA. TSCATS/017059. EPA/OTS Document Number 8782.
- * Tyler TR, McKelvey JA. 1982. Dose dependent disposition of ¹⁴C labeled ethylene oxide in rats. Bushy Run Research Center, Export, PA. TSCATS/017061. EPA/OTS Document Number 878212056.
- * USITC. 1988. Synthetic organic chemicals: United States production and sales - 1987: Washington, DC: U.S. International Trade Commission. USITC Publication 2118.
- * Van Duuren B, Orris L, Nelson N. 1965. Carcinogenicity of epoxides, lactones, and peroxy compounds. Part II. J Natl Cancer Inst 35:707-717.
- * Van Sittert NJ, De Jong G, Clare MG, et al. 1985. Cytogenetic, immunological, and haematological effects in workers in an ethylene oxide manufacturing plant. Br J Ind Med 42:19-26.
- * Vanderlaan M, Watkins BE, Stanker L. 1988. Environmental monitoring by immunoassay. Environ Sci Technol 22:247-254.
- Vargova M, Karellova J, Jablonicka A, et al. 1988. [On the question of possible unfavourable effects of occupational exposure to ethylene oxide.] Cesk Hyg 33:323-328. (Czech)
- *Verschuieren K. 1983. Handbook of environmental data on organic chemicals. 2nd ed. New York, NY: Van Nostrand Reinhold Company, 652-655.
- VIEW Database. 1989. Agency for Toxic Substances and Disease Registry (ATSDR), Office of External Affairs, Exposure and Disease Registry Branch, Atlanta, GA. February 2, 1989.
- * Von Oettingen W. 1939. Ethylene oxide. In: Supplement to occupation and health: Encyclopedia of Hygiene, Pathology, and Social Welfare. Geneva, Switzerland: International Labor Office.
- Wagner M, Kollorz W. 1987. [Occupational medicine studies of seven ethylene oxide-exposed endoscopy nursing professionals.] Zentralbl Bakteriell Mikrobiol Hyg [B] 185:154-163.
- Waldrop W. 1984. Current status of EPA regulation of ethylene oxide. In: Inhospitable ethylene oxide sterilization. Potential health effects, regulatory initiatives, safe use. AAMI Technology Assessment Report No. 8-84. Arlington, VA: Association for the Advancement of Medical Instrumentation, 42-43.

8. REFERENCES

- Walters SM. 1986. Cleanup of samples. In: Zweig G, Sherma J, eds. Analytical methods for pesticides and plant growth regulators. Vol 15. New York, NY: Academic Press, 67-110.
- * Watson, WA. 1966. Further evidence of an essential difference between the genetical effects of mono- and bifunctional alkylation agents. *Mutat Res* 3:455-457.
- * Weast RC, ed. 1985. CRC handbook of chemistry and physics: A ready-reference book of chemical and physical data. Boca Raton, FL: CRC Press, Inc., C-273.
- Weiss H. 1981. Carcinogenicity of ethylene oxide [Editorial]. *JAMA* 258:1733-1734.
- * WHO. 1985. Environmental health criteria 55: Ethylene oxide. Geneva, Switzerland: World Health Organization, 3-79.
- Willson JE. 1981. Ethylene oxide toxicity: review and update. *Steril Med Prod (Proceedings of the 2nd International Kilmer Memorial Conference)*, 129-149.
- Wilsnack RE, Meyer FJ, Smith JG. 1973. Human cell culture toxicity testing of medical devices and correlation to animal tests. *Biomater Med Devices Artif Organs* 1:543-562.
- * Woodard G, Woodard M. 1971. Toxicity of residuals from ethylene oxide gas sterilization. *Proc Health Ind Assoc Tech Symp, Washington, DC*, 140-161.
- * Yager JW, Hines CJ, Spear RC. 1983. Exposure to ethylene oxide at work increases sister chromatid exchanges in human peripheral lymphocytes. *Science* 219:1221-1223.
- Zamlauski MJ, Cohen JJ. 1976. The effects of aortic infusion of ethylene oxide on renal function in the rat. *Toxicol Appl Pharmacol* 38:283-295.
- * Zampollo A, Zacchetti O, Pisati G. 1984. On ethylene oxide neurotoxicity: Report of two cases of peripheral neuropathy. *Ital J Neurol Sci* 5:59-62.

