

## 8. REFERENCES

- ACGIH. 1986. Documentation of the threshold limit values and biological exposure indices. Fifth edition. American Conference of Governmental Industrial Hygienists, Cincinnati, OH.
- \*ACGIH. 1994. Threshold limit values and biological exposure indices for 1994-1995. American Conference of Governmental Industrial Hygienists, Cincinnati, OH.
- \*Ainsworth CC, Harvey SD, Szecsody JE, et al. 1993. Relationship between the leachability characteristics of unique energetic compounds and soil properties. U.S. Army Medical Research and Development Command, Fort Detrick, Frederick, MD. AD-A-267-580.
- Andren RK, Nystron JM, McDonnell RP, et al. 1977. Explosives removal from munitions wastewater. Proceedings of the Industrial Waste Conference 30816-825.
- \*Army. 1974. The toxicology of cyclotrimethylenetrinitramine (RDX) and cyclotetramethylenetetranitramine (HMX) solutions in dimethylsulfoxide (DMSO), cyclohexanone, and acetone. Edgewood Arsenal technical report EB-TR-73040. Aberdeen Proving Ground, MD: U.S. Army, Edgewood Arsenal. Document no. AD 788010. (author: McNamara BP et al.)
- \*Army. 1975. Development of industrial hygiene sampling and analytical methodology for evaluation of exposures to TNT and associated explosives. Contract no. DADA17-73-C-3167. Washington, DC: U.S. Army Medical Research and Developmental Command. Document no. AD-A008 399. (author: Saltzman BE et al.)
- Army 1976. Adverse health effects of selected explosives (TNT, RDX). Report no. USAEHH-32-049-75/76. Aberdeen Proving Ground, MD: U.S. Army Environmental Hygiene Agency. Document no. ADB010943.
- Army 1977a. Laboratory evaluation of the toxicity of cyclotrimethylene trinitramine (RDX) to aquatic organisms. Contract no. DAMD-17-74-C-4101. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. ADA061730.
- \*Army. 1977b. Mutagenicity of some munition wastewater chemicals and chlorine test reagents. Contract no. DAMD17-76-C-6013. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. (author: Simmon VF et al.)
- Army. 1978a. The hazard ranking and allocation methodology: Evaluation of TNT wastewaters for continuing research. efforts. Technical report 7808. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD A061770. (author: Small MJ).
- \*Army. 1978b. Mammalian toxicological evaluation of TNT wastewaters. Volume II: Acute and subacute mammalian toxicity of TNT and the LAP mixture. Contract no. DAMD17-76-C-6050. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. (author: Dilley JV et al.)

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\*Cited in text

## 8. REFERENCES

- \*Army. 1978c. Specific air pollutants from munitions processing and their atmospheric behavior. Volume 2: RDX/HMX production. Contract no. DAMD17-76-C-6067. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD A060122. (author: Carpenter BH et al.)
- Army. 1979. Evaluation of the environmental fate of munition compounds in soil. Contract no. DAMD17-76-C-6065. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD A082874. (author: Hale VQ et al.)
- \*Army. 1980a. Environmental fate of RDX and TNT. Report no. TR 81-538. Contract no. DAMD17-77-C-7026. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. (author: Sikka HC et al.)
- \*Army. 1980b. Mammalian toxicological evaluation of RDX. Contract no. DAMD17-78-C-8027. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD A092531. (author: Cholakakis et al.)
- Army. 1980c. Environmental fate studies on certain munition wastewater constituents: Phase II--Laboratory studies. Contract no. DAMD17-78-8081. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD A099256. (author: Spanggord et al.)
- \*Army. 1981a. Identification or development of chemical analysis methods for plants and animal tissues. Contract no. DAAK11-79-C-0110. Aberdeen Proving Ground, MD: U.S. Army Armament Research and Development Command, Edgewood Area. Document no. AD A107346. (author: Lakings and Gan).
- Army. 1981b. Preliminary pollutant limit values for Alabama Army Ammunition Plant. Technical report 8105. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD A104203. (author: Rosenblatt and Small).
- \*Army. 1983a. Determination of the chronic mammalian toxicological effects of RDX: Twenty-four month chronic toxicity/carcinogenicity study of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in the Fischer 344 rat: Phase V. Vol. 1. Contract no. DAMD17-C-9161. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD A160774. (authored by Levine BS et al.)
- \*Army. 1983b. Environmental fate studies on certain munitions wastewater constituents: Phase IV--Lagoon model studies. Contract no. DAMD17-78-C-8081. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD A138550. (authored by Spanggord RJ et al.) -.
- \*Army. 1983c. HPLC analysis of SEX, HMX, TAX, RDX, and TNT in wastewater. Technical report 8206. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD 127348. (authored by Brueggemann EE).
- \*Army. 1984a. Database assessment of the health and environmental effects of munition production waste products. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD-A145 417. (authored by Ryon MG et al.)

## 8. REFERENCES

- \*Army. 1984b. Determination of the chronic mammalian toxicological effects of RDX: Acute dermal toxicity test of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in rabbits. Contract no. DAMD17-79-C-9161. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. (authored by Furedi-Machacek EM et al.)
- \*Army. 1984c. Determination of the chronic mammalian toxicological effects of RDX: Twenty-four month chronic toxicity/carcinogenicity study of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in the B6C3F1 hybrid mouse: Phase VI. Vol. 1. Contract no. DAMD17-79-C-9161. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. (authored by Lish PM et al.)
- Army. 1984d. Development of novel decontamination techniques for explosive contaminated facilities. Contract no. DAAKII-Sic-0101. U.S. Army Toxic and Hazardous Material Agency. Document no. AD-PO04 880. (authored by Benecke HP et al.)
- Army. 1984e. Reverse phase HPLC method for analysis of TNT, RDX, HMX, and 2,4-DNT in munitions wastewater. CRREL report 84-29. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Report no. DRXTH-TE-TR-84301. (authored by Jenkins TF et al.)
- \*Army. 1984f. The anaerobic biotransformation of RDX, HMX, and their acetylated derivatives. Technical report NATICWTR-85/007. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Document no. AD-A149 464. (authored by McCormick NG et al.)
- Army. 1984g. The fate of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) and related compounds in anaerobic denitrifying continuous culture systems using simulated waste water. Technical report NATICWTR-85/008. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Document no. AD-149 462. (authored by McCormick NG et al.)
- \*Army. 1985a. Degradation of pink water compounds in soil - TNT, RDX, HMX. Technical report NATICWTR-85/046. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Document no. AD-A157 954. (authored by Greene B et al.)
- \*Army. 1985b. Neurotoxicology of cyclotrimethylenetrinitramine (RDX). Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. AD-A168266. (authored by MacPhail RC et al.)
- \*Army. 1985c. Suitability of polyvinyl chloride pipe for monitoring TNT, RDX, HMX, and DNT in groundwater. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Report no. AMX-TH-TE-85037. (authored by Parker LV et al.)
- \*Army. 1986a. Database assessment of pollution control in the military explosives and propellants production industry. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. (authored by Pal BC and Ryon MG).
- \*Army. 1986b. Composting explosives/organics contaminated soils. Contract no. DAAKII-84-C-0057. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Document no. AD-A169 994. (authored by Doyle RC et al.)

## 8. REFERENCES

- \*Army. 1986c. Demilitarization of conventional ordnance: Priorities for data-base assessments of environmental contaminants. Frederick, MD: U.S. Army Medical and Development Command, Fort Detrick. Document no. AD-A182 922. (authored by Layton DW, et al.)
- \*Army. 1986d. Teratological assessment of trinitro - RDX in rats. Aberdeen Proving Ground, MD: Department of the Army, U.S. Army Environmental Hygiene Agency. Document no. AD-A166 249. (authored by Angerhofer et al.)
- \*Army. 1986e. Water quality criteria for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX). Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. (authored by Etnier EL).
- \*Army. 1987a. Conventional weapons demilitarization: A health and environmental effects data base assessment: Phase II. Explosives and their co-contaminants. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD-A220 588. (authored by Layton D et al.)
- \*Army. 1987b. Development of an analytical method for explosive residues in soil. CRREL report 87-7. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Document no. AD-A183 738. (authored by Jenkins TF and Walsh ME).
- \*Army. 1987c. Treatment alternatives for explosive-laden spent carbons. Contract no. DAAK11-85-D-0008. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Document no. AD/A199 506. (authored by Balasco AA et al.)
- \*Army. 1988. Residual explosives criteria for treatment of area P soil, Louisiana Army Ammunition Plant. Technical report 8807. Frederick, MD: U.S. Army Medical Research and Development Command, Fort Detrick. Document no. AD-A197 799. (authored by Small MJ).
- \*Army. 1989a. Evaluation of four well casing materials for monitoring selected trace level organics in ground water. CRREL report 89-18. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Report no. CETHA-TE-CR-89209. (authored by Parker et al.)
- Army. 1989b. Validation of a sorbent tube/high performance liquid chromatographic procedure for the determination of eight explosives in water. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. Document no. AD-A210 777. (authored by Valis RJ et al.)
- \*Army. 1990a. An evaluation of the environmental fate and behavior of munitions material (TNT, RDX) in soil and plant systems: Environmental fate and behavior of RDX. Pacific Northwest Laboratory-7529. Project order no. 88PP8853. Frederick, MD: U.S. Army Biomedical Research and Development Laboratory, Fort Detrick.
- Army. 1990b. Environmental transformation products of nitroaromatics and nitramines: Literature review and recommendations for analytical method development. Special report 90-2. Aberdeen Proving Ground, MD: U.S. Army Toxic and Hazardous Materials Agency. (authored by Walsh ME).
- \*Atkinson R. 1987. A structure-activity relationship for the estimation of rate constants for the gas-phase reactions of OH radicals with organic compounds. International Journal of Chemical Kinetics 19:799-828.

## 8. REFERENCES

- \*ATSDR. 1989. Decision guide for identifying substance-specific data needs related to toxicological profiles. Agency for Toxic Substances and Disease Registry, Division of Toxicology, Atlanta GA.
- \*ATSDR. 1989a. Health assessment for Cornhusker Army Ammunition Plant, Grand Island, Nebraska, Region 7. Agency for Toxic Substances and Disease Registry, Atlanta GA. CERCLIS 'No. NE2213820234. Issue 02.
- \*ATSDR. 1989b. Health assessment for Milan Army Plant, Carrol and Gibson Counties, Tennessee, Region 4. Agency for Toxic Substances and Disease Registry, Atlanta GA. CERCLIS no. TND210020582. Issue 07.
- \*ATSDR. 1989c. Health assessment for Savanna Army Depot, Savanna, Carroll County, Illinois, Region 5. Agency for Toxic Substances and Disease Registry, Atlanta GA. CERCLIS no. ILO213820376. Issue 01.
- \*ATSDR/CDC. 1990. Subcommittee report on biological indicators of organ damage. Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, Atlanta GA.
- \*Barnes DG, Dourson M. 1988. Reference dose (RfD): Description and use in health risk assessments. Regul Toxicol Pharmacol 8:471-486.
- Barsotti M, Crotti G. 1949. [Epileptic attacks as manifestations of industrial intoxication caused by trimethylenetrinitroamine (T4).] Med Lav 40: 107-112. (Italian)
- Bauer CF, Grant CL, Jenkins TF. 1986. Inter-laboratory evaluation of high-performance liquid-chromatographic determination of nitro-organics in munition plant waste water. Anal Chem 58:176-182.
- \*Bauer CF, Koza SM, Jenkins TF. 1990. Liquid chromatographic method for determination of explosive residues in soil: Collaborative study. J Assoc Off Anal Chem 73:541-552.
- \*Belkin F, Bishop RW, Sheely MV. 1985. Analysis of explosives in water by capillary gas chromatography. J Chromatogr Sci 23:532-534.
- \*Berberich DW, Yost RA, Fetterolf DD. 1988. Analysis of explosives by liquid chromatography/thermospray/mass spectrometry. J Forensic Sci 33:946-959.
- \*Bishop RW, Ayers TA, Rinehart DS. 1981. The use of a solid sorbent as a collection medium for TNT and RDX vapours. Am Ind Hyg Assoc J 42:586-589.
- \*Bishop RW, Kennedy JL, Podolak GE, et al. 1988. A field evaluation of air sampling-methods for TNT and RDX. Am Ind Hyg Assoc J 49:635-638.
- \*Bongiovanni R, Podolak GE, Clark LD, et al. 1984. Analysis of trace amounts of six selected poly-nitro compounds in soils. Am Ind Hyg Assoc J 45:222-226.
- \*Bricka RM, Sharp W. 1992. Treatment of groundwater contaminated with low levels of military munitions. 47th Purdue Industrial Waster Conference Proceedings. Chelsea, MI: Lewis Publishers, 199-204.

## 8. REFERENCES

- Brown D. 1975. The acute and chronic biochemical and behavioral effects of cyclotrimethylenetriamine. Baltimore, MD: Maryland University School of Pharmacy. Document no. AD-A024415/2.
- Brown JM, Spanggord RJ, Jorgenson TA. 1988. Chronic mammalian toxicological effects of LAP wastewater. Issue 08.
- \*Burdette LJ, Cook LL, Dyer RS. 1988. Convulsant properties of cyclotrimethylenetrinitramine (RDX): Spontaneous audiogenic, and amygdaloid kindled seizure activity. *Toxicol Appl Pharmacol* 92:436-444.
- \*Burrows EP, Brueggemann EE. 1985. Reversed-phase gradient high-performance liquid chromatography of nitramine munitions and characterization of munitions process samples by gas chromatography-mass spectrometry. *J Chromatogr* 329:285-289.
- \*Burrows WD, Chyrek RH, Noss CI, et al. 1984. Treatment for removal of munition chemicals from army industrial wastewaters. In: LaGrega MD, Long DA, eds. *Toxic and hazardous wastes: Proceedings of the 16th Mid-Atlantic Industrial Waste Conference*, Bucknell University, 1984. Lancaster, PA: Technomic Publishing Co., Inc., 331-342.
- Carrol JW, Guinivan TL, Tuggle RM. 1979. Assessment of hazardous air pollutants from disposal of munitions in a prototype fluidized bed incinerator. *Am Ind Hyg Assoc J* 40:147-158.
- \*Cataldo DA, Harvey SD, Fellows RJ. 1993. The environmental behavior and chemical fate of energetic compounds (TNT, RDX, tetryl) in soil and plant systems. Prepared by Pacific Northwest Laboratory, Richland, WA under DOE contract. DE 93-019614.
- \*CELDS. 1994. Computer-Environmental Legislative Data Systems. University of Illinois, Urbana, IL.
- \*Dilley JV, Tyson CA, Spanggord RJ, et al. 1982. Short-term oral toxicity of a 2,4,6-trinitrotoluene and hexahydro-1,3,5-trinitro-1,3,5-triazine mixture in mice, rats, and dogs. *J Toxicol Environ Health* 9:587-610.
- \*DOT. 1989. Hazardous materials table. Department of Transportation. Code of Federal Regulations. 49 CFR 172.101.
- \*Douse JMF. 1982. Trace analysis of explosives in hand-swab extracts using amberlite XAD-7, porous polymer beads, silica capillary-column gas chromatography with electron capture detection and thin-layer chromatography. *J Chromatogr* 234:415-425.
- Doyle RC, Isbister JD, Forgacs TW, et al. 1985. Composting explosives contaminated sediments. *American Defense Preparedness Association* 14:40-44.
- Edwards BH, Paullin JN, Coghlan-Jordan K. 1983. Emerging technologies for the control of hazardous wastes: Project summary. Park Ridge, NJ: Noyes Data Corporation.
- \*Eisenreich SJ, Looney BB, Thornton JD. 1981. Airborne organic contaminants in the Great Lakes ecosystem. *Environ Sci Technol* 15:30-38.

## 8. REFERENCES

- \*Eminger S, Vejrostova M. 1984. Photometric determination of microgram quantities of 1,3,5-trinitro-1,3,5-triazacyclohexane in air. *Collection of Czechoslovak Chem Commun* 49:1464-1467.
- \*Emmrich M, Kaiser M, Rueden H, et al. 1993. Determination of RDX, 2,4,6-trinitrotoluene and other nitroaromatic compounds by high-performance liquid chromatography with photoiodide-array detection. *J Chromatogr* 645 (1): 89-94.
- \*EPA. 1976. Explosives manufacturing point source category. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 457.11.
- EPA. 1988. Health advisory for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX). Washington, DC: U.S. Environmental Protection Agency, Office of Drinking Water, Criteria and Standards Division.
- \*EPA. 1990a. Hazardous wastes from specific sources. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.32.
- \*EPA. 1990b. Interim methods for development of inhalation reference concentrations. Washington DC: U.S. Environmental Protection Agency. EPA/600/890/066A.
- Etnier EL. 1989. Water quality criteria for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX). *Regul Toxicol Pharmacol* 9:147-157.
- Etnier EL, Hartley WR. 1990. Comparison of water quality criterion and lifetime health advisory for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX). *Regul Toxicol Pharmacol* 11:118-122.
- \*FEDRIP. 1994. Federal Research in Progress: RDX. Dialog Information Service, Inc
- \*Fine DH, Yu WC, Goff EU, et al. 1984. Picogram analyses of explosive residues using the thermal energy analyzer (TEA). *J Forensic Sci* 29:732-746.
- French JE, Bradley SL, Schneider NR, et al. 1976. Cyclotrimethylenetrinitramine (RDX)-induced ultrastructural changes in rat liver and kidney [Abstract]. *Toxicol Appl Pharmacol* 37:122.
- \*FSTRAC. 1994. Summary of state and federal drinking water standards and guidelines. U.S. Environmental Protection Agency. Chemical Communication Subcommittee, Federal State Toxicology and Regulatory Alliance Committee (FSTRAC).
- \*Gibbs TR, Popolato A, eds. 1980. LASL explosive property data. Berkeley, CA: University of California Press, 141-143.
- Glish GL, McLuckey SA, Carter JA. 1984. Mass spectrometry/mass spectrometry as a screening method for detecting explosive vapors. *Nucl Mater Manage* 13:216-219.
- \*Griest WH, Guzman C, Dekker M. 1989. Packed-column supercritical fluid chromatographic separation of highly explosive compounds. *J Chromatogr* 467:423-429.
- \*Griest, WH, Stewart AJ, Tyndall et al. 1993. Chemical and toxicological testing of composted explosives-contaminated soil. *Environ. Toxicol. Chem.* 12: 1105-1116

## 8. REFERENCES

- \*Haas R, Schreiber I, Von Loew E, et al. 1990. Conception for the investigation of contaminated munition plants: 2. Investigation of former RDX-plants and filling stations. *Fresenius' Journal of Analytical Chemistry* 338:41-45.
- \*Hable M, Stem C, Asowata C, et al. 1991. The determination of nitroaromatics and nitramines in ground and drinking water by wide-bore capillary gas chromatography. *J Chromatogr Sci* 29: 131-135.
- \*Harvey SD, Fellows RJ, Cataldo DA, et al. 1991. Environmental chemistry: Fate of the explosive hexahydro-1,3,5-triazine (RDX) in soil and bioaccumulation in bush bean hydroponic plants. *Environmental Toxicology and Chemistry* 10:845-855.
- \*Hathaway JA, Buck CR. 1977. Absence of health hazards associated with RDX manufacture and use. *J Occup Med* 19:269-272.
- \*HazDat. 1994. Agency for Toxic Substances and Disease Registry, Atlanta GA.
- \*Hoffsommer JC, Rosen JM. 1972. Analysis of explosives in sea water. *Bull Env Contam Toxicol* 7:177-181.
- \*Hoffsommer JC, Rosen JM. 1973. Hydrolysis of explosives in sea water. *Bull Env Contam Toxicol* 10:78-79.
- \*Hollander AI, Colbach EM. 1969. Composition C-4 induced seizures: A report of five cases. *Milit Med* 134:1529-1530.
- \*HSDB. 1994. Hazardous Substances Data Bank. National Library of Medicine, National Toxicology Information Program, Bethesda, MD. May, 1991.
- \*IRIS. 1994. Integrated Risk Information Systems. U.S. Environmental Protection Agency, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH.
- Isbister JD, Anspach GL, Kitchens JF, et al. 1984. Composting for decontamination of soils containing explosives. *Microbiologica* 7:47-73.
- \*Jenkins TF, Grant CL. 1987. Comparison of extraction techniques for munitions residues in soil. *Anal Chem* 59:1326-1331.
- \*Jenkins TF, Leggett DC, Grant CL, et al. 1986. Reversed-phase high-performance liquid chromatographic determination of nitroorganics in munitions wastewater. *Anal Chem* 58: 170- 175.
- \*Jenkins TF, Walsh ME, Schumacher PW, et al. 1989. Liquid chromatographic method for determination of extractable nitroaromatic and nitramine residues in soil. *J Assoc Off Anal Chem* 72:890-899.
- \*Jian C, Seitz WR. 1990. Membrane for in situ optical detection of organic nitro compounds based on fluorescence quenching. *Anal Chim Acta* 237:265-271.
- \*Kaplan AS, Berghout CF, Peczenik A. 1965. Human intoxication from RDX. *Arch Environ Health* 10:877-883.



## 8. REFERENCES

- Kayser EG, Burlinson NE. 1988. Migration of explosives in soil: Analysis of RDX, TNT, tetryl from a 14C lysimeter study. *Journal of Energetic Materials* 6:45-71.
- \*Ketel WB, Hughes JR. 1972. Toxic encephalopathy with seizures secondary to ingestion of an explosive material composition C-4: A clinical and electroencephalographic study. *Neurology* 22:871-876.
- \*Knepshield JH, Stone WJ. 1972. Toxic effects following ingestion of C-4 plastic explosive. In: Keup W, ed. *Drug abuse: Current concepts and research*. Springfield, IL: Charles C. Thomas, 296-301.
- \*Krull IS, Ding XD, Selavka C, et al. 1984. Explosives and other nitro compounds determined by liquid chromatography with photolysis-electrochemical detection. *Methodological Surveys in Biochemistry and Analysis* 14:365-366.
- \*Lafleur AL, Morriseau BD. 1980. Identification of explosives at trace levels by high-performance liquid chromatography with a nitrosyl-specific detector. *Anal Chem* 52: 13 13-1 3 18.
- \*Levine BS, Furedi EM, Gordon DE, et al. 1981. Thirteen-week toxicity study of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in Fischer 344 rats. *Toxicol Lett* 8:241-245.
- \*Levine BS, Furedi EM, Gordon DE, et al. 1990. Toxic interactions of the munitions compounds TNT and RDX in F344 rats. *Fundam Appl Toxicol* 15:373-380.
- \*Levsen K, Mussmann E, Berger E, et al. 1993. Analysis of nitroaromatics and nitramines in ammunition waste water and in aqueous samples from former ammunition plants and other military sites. *Acta Hydrochim Hydrobiol* 21:153-166.
- \*Lloyd JBF. 1983. High-performance liquid chromatography of organic explosives components with electrochemical detection at a pendant-mercury-drop electrode. *J Chromatogr* 257:227-236.
- \*Lyman WJ, Reehl WF, Rosenblatt DH. 1982. *Handbook of chemical property estimation methods: Environmental behavior of organic compounds*. New York, NY: McGraw-Hill Book Company.
- \*Lyter AH. 1983. A high performance liquid chromatographic (HPLC) study of seven common explosive materials. *J Forensic Sci* 28:446-450.
- \*Maskarinec MP, Manning DL, Harvey RW. 1984. Determination of munitions components in water by resin adsorption and high-performance liquid chromatography-electrochemical detection. *J Chromatogr* 302:51-63.
- \*McCormick N-G, Cornell JH, Kaplan AM. 1981. Biodegradation of hexahydro-1,3,5-trinitro-1,3,5-triazine. *Appl Environ Microbiol* 42:8 17-823.
- McDiarmid MA, Weaver V. 1993. Fouling One's Own Nest Revisited. *Am J Ind Med* 24(1): 1-9.
- \*McKone TE, Layton DW. 1986. Screening the potential risks of toxic substances using a multimedia compartment model: Estimation of human exposure. *Regul Toxicol Pharmacol* 6:359-380.

## 8. REFERENCES

- \*McLuckey SA, Glish GL, Carter JA. 1985. The analysis of explosives by tandem mass spectrometry. *J Forensic Sci* 30:773-788.
- \*Merck. 1989. *The Merck index: An encyclopedia of chemical, drugs, and biologicals*. Eleventh edition. Budavari S, O'Neil MJ, Smith A, et al., eds. Rahway, NJ: Merck & Co., Inc.
- \*Merrill SL. 1968. Ingestion of an explosive material, composition C-4: A report of two cases. *U.S. ARV Med Bull* 35-1 1.
- Meyer R. 1977. *Explosives*. Weinheim, New York: Verlag Chemie, 150-152.
- \*Miyares PH, Jenkins TF. 1991. Improved salting out extraction-preconcentration determination of nitroaromatics and nitramines in water. U.S. Army Corps of Engineers, Cold Regions Research and Engineering Lab, Special Report 91-1 8. AD-AD-A245 49 1.
- \*NAS/NRC. 1989. *Biologic markers in reproductive toxicology*. National Academy of Sciences/National Research Council. Washington, DC: National Academy Press, 15-35.
- \*NATICH. 1991. *National Air Toxics Information Clearinghouse. Data base report on state, local, and EPA air toxics activities*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Washington, DC: September 17, 1990.
- \*Navy. 1972. *Analysis of explosives in sea water and in ocean floor sediment and fauna*. Silver Springs, MD: Naval Ordnance Laboratory. Document no. AD 757778. (authored by Hoffsommer et al.)
- \*Navy. 1973. *Microbial degradation of cyclonite (RDX)*. Naval Weapons Center technical publication 5525. China Lake, CA: Naval Weapons Center. Document no. AD-762 751. (authored by Soli G.)
- \*Navy. 1974a. *Subacute toxicity of RDX and TNT in dogs*. Contract no. N00014-73-C-0162. Arlington, VA: Office of Naval Research. (authored by Hart ER.)
- \*Navy. 1974b. *Subacute toxicity of RDX and TNT in monkeys*. Contract no. N00014-73-C-0162, NR108-985. Arlington, VA: Office of Naval Research. Document no. AD 044650. (authored by Martin and Hart).
- \*Navy. 1976. *Two-year feeding study in rats*. Contract no. N00014-73-C-0162, NR 202-043. Arlington, VA: Office of Naval Research. Document no. AD-A040 161. (authored by Hart ER).
- Navy. 1979. *Photolysis of RDX in aqueous solution, with and without ozone*. Naval Surface Weapons Center/White Oak Laboratory technical report 78-175. Silver Spring, MD: Naval Surface Weapons Center. Document no. AD A080195. (authored by Glover and Hoffsommer).
- \*Navy. 1982. *Migration of explosives in soil*. Naval Surface Weapons Center technical report 82-566. Silver Spring, MD: Naval Surface Weapons Center. Document no. AD-A135417. (authored by Kayser EG and Burlinson NE.)

## 8. REFERENCES

- \*NIOSH. 1992. Recommendations for occupational safety and health. Compendium of policy documents and statements. U.S. Department of Health and Human Services, National Institute of Occupational Safety and Health, Cincinnati, OH.
- \*NOES. 1990. National Occupational Exposure Survey (1981-83): RDX. U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health, Cincinnati, OH.
- NRC. 1982. Evaluation of the health risks of ordnance disposal waste in drinking water. Washington, D.C: National Research Council, Assembly of Life Sciences, Board on Toxicology and Environmental Health Hazards, National Academy Press.
- \*NREPC. 1986. New or modified sources emitting toxic air pollutants. Proposed regulations. Frankfort, KY: Department for Environmental Protection, Natural Resources and Environmental Protection Cabinet. 401 KAR 63:022.
- \*OSHA. 1989. Air contaminants. U.S. Department of Labor, Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.1000.
- \*Osmon JL, Klausmeier RE. 1973. The microbial degradation of explosives. *Developments in Industrial Microbiology* 14:247-252.
- \*OTA. 1990. Neurotoxicity: Identifying and controlling poisons of the nervous system. Office of Technology Assessment, Washington, DC. OTA-BA-438.
- Pach J, Groszek B, Bogusz M, et al. 1980. Acute forced poisoning with explosives. *Archiwum Medycyny Sadowej I Krjminologii* 30:321-325.
- \*Richard JJ, Junk GA. 1986. Determination of munitions in water using macrorreticular resins. *Anal Chem* 58:723-725.
- \*Roth M, Murphy JM Jr. 1978. Correlation of oxygen demand and total organic carbon tests on wastewaters from ammunition plants. *Proceedings of the Industrial Waste Conference* 32:674-688.
- \*Sax NI, Lewis RJ Sr. 1987. *Hawley's condensed chemical dictionary*. Eleventh edition. New York, NY: Van Nostrand Reinhold Co.
- \*Sax NI, Lewis RJ Sr. 1989. *Dangerous properties of industrial materials*. Seventh edition. Volume III. New York, NY: Van Nostrand Reinhold Co.
- Schneider NR, Bradley SL, Anderson ME. 1976a. Metabolism of carbon-14 cyclotrimethylenetrinitramine in the rat [Abstract]. *Toxicol Appl Pharmacol* 37:137.
- Schneider NR, Bradley SL, Anderson ME. 1976b. Toxicology of cyclotrimethylenetrinitramine (RDX): Distribution and metabolism in the rat and the miniature swine. Bethesda, MD: Armed Forces Radiobiology Research Institute, Defense Nuclear Agency. Document no. AD A026892.
- \*Schneider NR, Bradley SL, Anderson ME. 1977. Toxicology of cyclotrimethylenetrinitramine: Distribution and metabolism in the rat and the miniature swine. *Toxicol Appl Pharmacol* 39:531-541.

## 8. REFERENCES

- \*Schneider NR, Bradley SL, Anderson ME. 1978. The distribution and metabolism of cyclotrimethylenetrinitramine (RDX) in the rat after subchronic administration. *Toxicol Appl Pharmacol* 46:163-171.
- Scott DH, Fellows RJ, Cataldo DA, et al. 1991. Fate of the explosive hexahydro- 1,3,5-trinitro- 1,3,5-triazine (RDX) in soil and bioaccumulation in bush bean hydroponic plants. *Environ Toxicol Chem* 10:845-855.
- Shen Z, Wang W. 1983. [Rapid cathode-ray polarographic (linear-sweep chronoamperometric) determination of micro amounts of hexahydro- 1,3,5-trinitro- 1,3,5-triazine in water.] *Fenxi Huaxue* 11:289-290. (Chinese)
- \*Spalding RF, Fulton JW. 1988. Groundwater munition residues and nitrate near Grand Island, Nebraska, USA. *Journal of Contaminant Hydrology* 2: 139-153.
- Spangord RJ, Mabey WR, Mill T, et al. 1981. Environmental fate studies on certain munition wastewater constituents: Phase 3, part 2. Laboratory studies. NTIS AD-A131 90. Menlo Park, CA: SRI International, 58.
- \*St. John GA, McReynolds JH, Blucher WG, et al. 1975. Determination of the concentration of explosives in air by isotope dilution analysis. *Forensic Sci* 6:53-66.
- \*Stokinger HE. 1982. Aliphatic nitro compounds, nitrates, nitrites. In: Clayton GD, Clayton FE, eds. *Patty's industrial hygiene and toxicology*. Vol. 2C. 3rd revised ed. New York, NY: John Wiley & Sons, 4141,4196-4197.
- \*Stone WJ, Paletta TL, Heiman EM, et al. 1969. Toxic effects following ingestion of C-4 plastic explosive. *Arch Intern Med* 124:726-730.
- \*Strobel RA, Tontarski RE. 1983. Organic solvent extracts of explosive debris: Clean-up procedures using bonded phase sorbents. *Proceedings of the International Symposium on the Analysis and Detection of Explosives*, FBI Academy, Quantico, VA, March 29-31, 1983. Washington, DC: U.S. Department of Justice, Federal Bureau of Investigation, 67-70.
- \*Sunderman FW. 1944. Hazards to the health of individuals working with RDX(B). OSRD Report No. 4147. National Defense Research Committee of the Office of Scientific Research and Development.
- \*Swann RL, Laskowski DA, McCall PJ. 1983. A rapid method for the estimation of the environmental parameters octanol-water partition coefficient, soil sorption constant, water to air ratio, and water solubility. *Residue Rev* 85:17-28.
- \*Tanner SD, Davidson WR, Fulford JE. 1983. The instantaneous detection of explosives by tandem mass spectrometry. In: *Proceedings of the International Symposium on the Analysis and Detection of Explosives*, FBI Academy, Quantico, VA, March 29-31, 1983. Washington, DC: U.S. Department of Justice, Federal Bureau of Investigation, 409-417.
- \*TRI. 1993. Toxic Chemical Release Inventory. National Library of Medicine, National Toxicology Information Program, Bethesda, MD.

## 8. REFERENCES

\*Turley CP, Brewster MA. 1987. Liquid-chromatographic analysis of cyclotrimethylenetrinitramine in biological fluids using solid-phase extraction. *J Chromatogr Biomed Appl* 421:430-433.

\*Twibell JD, Turner SL, Smalldon KW, et al. 1984. The persistence of military explosives on hands. *J Forensic Sci* 29:284-290.

Unkefer PJ, Alvarez MA, Hanners JL, et al. 1990. Bioremediation of explosives. U.S. Department of Energy contract no. W-740.5ENG-36. Los Alamos, NM: Los Alamos National Laboratory. NTIS/DE9001 1989.

\*Verweij A, De Bruyn P, et al. 1993. Liquid chromatographic, thermospray/negative ion, tandem mass spectrometric analysis (lc/tsp/ms/ms) of some explosives. *Forensic Sci. Int.* 60:7-13.  
Vogel W. 1951. [Hexogen poisoning in human beings.] *Zentralkl Arbeitsmed Arbeitsschutz* 151-54; Abstracted in *Industrial Hygiene Digest* 16:29-30 (1959). (German)

\*von Oettingen WF, Donahue DD, Yagoda H, et al. 1949. Toxicity and potential dangers of cyclotrimethylenetrinitramine (RDX). *Journal of Industrial Hygiene and Toxicology* 3 1:21-3 1.

\*Vouros P, Petersen BA, Colwell L, et al. 1977. Analysis of explosives by high performance liquid chromatography and chemical ionization mass spectrometry. *Anal Chem* 49:1039-1044.

Wakabayashi K, Okuzu M. 1970. [Inhibitory effects of s-triazines on nitrification in soils: IV. Hydroxy-S-triazines and their derivatives, miscellaneous S-triazines, and hydro-S-triazines.] *Nippon Dojo Hiriyogaku Zasshi* 41:237-245. (Japanese)

\*Walker JE, Kaplan DL. 1992. Biological degradation of explosives and chemical agents. *Biodegradation* 3:369-385.

Weigel K. 1955. An explosive as a new rodenticide. *Seifen, Oele, Fette, Wachse* 81:95-96.

\*Whong W-Z, Speciner ND, Edwards GS. 1980. Mutagenic activity of tetryl, a nitroaromatic explosive, in three microbial test systems. *Toxicol Lett (Amst)* 5:11-17.

Williams RT, Ziegenfuss PS, Mohrman GB, et al. 1989. Composting of explosives and propellant contaminated sediments. *Hazardous and Industrial Waste* 21:599-611.

\*Williams RT, Ziegenfuss PS, Sisk WE. 1992. Composting of explosives and propellant contaminated soils under thermophilic and mesophilic conditions. *J Ind Microbiol* 9:137-144.

\*Woody RC, Keams GL, Brewster MA, et al. 1986. The neurotoxicity of cyclotrimethylenetrinitramine (RDX) in a child: A clinical and pharmacokinetic evaluation. *Clin Toxicol* 24:305-319.

\*Wujcik WJ, Lowe WL, Marks PJ, et al. 1992. Granular activated carbon pilot treatment studies for explosives removal from contaminated groundwater. *Environmental Progress* 11:178-189.

## 8. REFERENCES

Yang Y, Li W, Yin P, et al. 1986. Biological treatment for mixed 2,4,6-trinitrotoluenecyclotrimethylene-trinitroamine wastewater by screened bacteria strains. *Acta Microbiologica Sinica* 26:53-59.

Yang Y, Wang X, Yin P, et al. 1983. 3 Strains of corynebacterium degrading cyclotrimethylenetrinitroamine. *Acta Microbiologica Sinica* 23:251-256.

\*Yinon J, Laschever M. 1982. Direct-injection chemical ionization mass spectrometry of explosives in water. *European Journal of Mass Spectrometry in Biochemistry, Medicine and Environmental Research* 2:101-104.