ERID: 63385

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## Welcome to TOXNET ON THE WEB

This free-of-charge search interface provides access to the TOXNET system of databases on toxicology, hazardous chemicals, and related areas.

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<u>Toxicology Data Search</u> - Select and search any of the following files containing factual information related to the toxicity and other hazards of chemicals: <u>HSDB</u> (Hazardous Substances Data Bank), <u>CCRIS</u> (Chemical Carcinogenesis Research Information System) from the <u>National Cancer Institute</u>, and <u>GENE-TOX</u> (Genetic Toxicology/Mutagenicity Data Bank) and <u>IP</u> "integrated Risk Information System) both from the <u>Environmental Protection Agency (EPA)</u>.

<u>Toxic Releases (TRI) Search</u> - Select and search any of the <u>Environmental Protection Agency's (EPA)</u> <u>TRI</u> series of files (beginning with TRI87) containing data on the estimated quantities of chemicals released to the environment or transferred off-site for waste treatment, as well as information related to source reduction and recycling.

<u>Toxicology Literature Search</u> - Select and search any of the following bibliographic files, consisting of citations to the scientific literature: <u>DART</u> (Developmental and Reproductive Toxicology) and its backfile **ETICBACK**, and <u>EMIC</u> (Environmental Mutagenesis Information Center) and its backfile **EMICBACK**.

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<u>Related Information</u> - Provides links to other World Wide Web resources containing information relevant to toxicology and environmental health.

<u>Toxicology and Environmental Health Information Program</u> <u>Specialized Information Services</u> <u>National Library of Medicine</u> <u>National Institutes of Health</u> <u>Department of Health and Human Services</u>

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POPULATIONS AT SPECIAL RISK

A REPORT ON 3 CASES OF ACUTE HEMOLYTIC DISEASE IN GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENT WORKERS EXPOSED TO TRINITROTOLUENE ONSET OF THE DISEASE WAS WITHIN 2 OR 4 DAYS AFTER START OF EXPOSURE. [DJERASSI LS, VITANY L; BR J IND MED 32 (1): 54-8 (1975)] \*\*PEER REVIEWED\*\* ABSORPTION, DISTRIBUTION AND EXCRETION

- The disposition and metabolism of 2,4,6-trinitrotoluene (TNT) was studied in rats, mice, rabbits, and dogs following oral, dermal, or intratracheal admin of single doses of (14)C-ring labeled cmpd. The objective was to determine possible species and sex differences as a function of route of admin as a rationale for the design of chronic studies. TNT was absorbed in all species by all routes of admin with the most extensive absorption occurring after intratracheal instillation. Dermal absorption was the highest in rabbits followed by mice, rats, and dogs. Species differences in the rate of oral absorption could not be accurately assessed. Excretion was primarily in urine and to a lesser extent in feces. Extensive biliary excretion was also noted. Blood and tissue levels in females were generally higher than in males. [E1-Hawari AM et al; Govt Reports Announcements & Index (GRA&I) 17 (1982)] \*\*PEER REVIEWED\*\*
- ABSORPTION, DISTRIBUTION AND EXCRETION Trinitrotoluene (TNT) absorption was assessed in workers at two explosives factories by measuring urinary concentrations of dinitroaminotoluene dinitroaminotoluene metabolites. The range of atmospheric concentrations was 0.02-5.73 mg/cu m in static samples and <0.01 to 0.71 mg/cu m in personal samples. In postshift urine samples, the mean concentration of dinitroaminotoluene was 9.7 mg/l (standard deviation 7.9, n= 219). TNT was shown to be absorbed rapidly during the exposure period. A wide variation among individuals in the rate of clearance of TNT metabolites was seen. For the group as a whole the daily mean urinary total dinitroaminotolucne concentrations in preshift samples were lower than those in postshift samples although in some cases higher concentrations of metabolites were seen in samples taken the morning after exposure. Urine samples collected after 17 days away from the workplace still showed detectable levels of dinitroaminotoluene (mean 0.06 mg dinitroaminotoluene/1) indicating that a proportion of TNT or its metabolites is slowly excreted. [Woollen BH et al; Br J Ind Med 43: 465-73 (1986)] \*\*PEER REVIEWED\*\*



<u>Toxicology and Environmental Health Information Program</u> <u>Specialized Information Services</u> <u>National Library of Medicine</u> <u>National Institutes of Health</u> <u>Department of Health and Human Services</u>

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