

\*\*\* CHEMICAL IDENTIFICATION \*\*\*

RTECS NUMBER : TI2975000  
 CHEMICAL NAME : Potassium iodide  
 CAS REGISTRY NUMBER : 7681-11-0  
 LAST UPDATED : 199710  
 DATA ITEMS CITED : 20  
 MOLECULAR FORMULA : I-K  
 MOLECULAR WEIGHT : 166.00  
 WISWESSER LINE NOTATION : KA I  
 COMPOUND DESCRIPTOR : Mutagen  
 Reproductive Effector  
 Human

SYNONYMS/TRADE NAMES :

\* KI-N  
 \* Knollide  
 \* Potide

\*\*\* HEALTH HAZARD DATA \*\*\*

\*\* ACUTE TOXICITY DATA \*\*

TYPE OF TEST : LDLo - Lowest published lethal dose  
 ROUTE OF EXPOSURE : Intravenous  
 SPECIES OBSERVED : Rodent - rat  
 DOSE/DURATION : 167 mg/kg  
 TOXIC EFFECTS :  
 Behavioral - convulsions or effect on seizure threshold

REFERENCE :

AEXPBL Archiv fuer Experimentelle Pathologie und Pharmakologie. (Leipzig, Ger. Dem. Rep.) V.1-109, 1873-1925. For publisher information, see NSAPCC. Volume(issue)/page/year: 96,292,1923

TYPE OF TEST : LDLo - Lowest published lethal dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Rodent - mouse  
 DOSE/DURATION : 1862 mg/kg

TOXIC EFFECTS :  
 Behavioral - somnolence (general depressed activity)  
 Behavioral - muscle weakness  
 Lungs, Thorax, or Respiration - dyspnea

REFERENCE :

JPETAB Journal of Pharmacology and Experimental Therapeutics. (Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202) V.1- 1909/10- Volume(issue)/page/year: 120,171,1957

TYPE OF TEST : LDLo - Lowest published lethal dose  
 ROUTE OF EXPOSURE : Intraperitoneal  
 SPECIES OBSERVED : Rodent - mouse  
 DOSE/DURATION : 1117 mg/kg

TOXIC EFFECTS :  
 Behavioral - convulsions or effect on seizure threshold  
 Behavioral - excitement  
 Lungs, Thorax, or Respiration - other changes

REFERENCE :

JPETAB Journal of Pharmacology and Experimental Therapeutics. (Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202) V.1- 1909/10- Volume(issue)/page/year: 120,171,1957

TYPE OF TEST : LDLo - Lowest published lethal dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Rodent - rabbit  
 DOSE/DURATION : 916 mg/kg

TOXIC EFFECTS :  
 Details of toxic effects not reported other than lethal dose value

REFERENCE :

JPETAB Journal of Pharmacology and Experimental Therapeutics. (Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202) V.1- 1909/10- Volume(issue)/page/year: 30,407,1927

\*\* REPRODUCTIVE DATA \*\*

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Human - woman  
 DOSE : 2700 mg/kg  
 SEX/DURATION : female 1-39 week(s) after conception

TOXIC EFFECTS :  
 Reproductive - Specific Developmental Abnormalities - endocrine system

REFERENCE :

JOPDAB Journal of Pediatrics. (C.V. Mosby Co., 11830 Westline Industrial Dr., St. Louis, MO 63141) V.1- 1932- Volume(issue)/page/year: 67,353,1965

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Human - woman  
 DOSE : 3240 mg/kg  
 SEX/DURATION : female 1-39 week(s) after conception

TOXIC EFFECTS :  
 Reproductive - Specific Developmental Abnormalities - endocrine system  
 Reproductive - Effects on Newborn - other neonatal measures or effects  
 Reproductive - Effects on Newborn - physical

REFERENCE :

ADCHAK Archives of Disease in Childhood. (British Medical Journal, POB 560B, Kennebunkport, ME 04046) V.1- 1926- Volume(issue)/page/year: 43,702,1968

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Rodent - rat  
 DOSE : 10530 mg/kg  
 SEX/DURATION : female 1-9 day(s) after conception

TOXIC EFFECTS :  
 Reproductive - Fertility - pre-implantation mortality (e.g. reduction in number of implants per female; total number of implants per corpora lutea)  
 Reproductive - Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus)

REFERENCE :

JRPF44 Journal of Reproduction and Fertility. (Biochemical Soc. Book Depot, POB 32, Commerce Way, Colchester, Essex CO2 8HP, UK) V.1- 1960- Volume(issue)/page/year: 27,265,1971

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Rodent - rat  
 DOSE : 822 mg/kg  
 SEX/DURATION : male 2 week(s) pre-mating  
 female 2 week(s) pre-mating - 13 day(s) post-birth

TOXIC EFFECTS :  
 Reproductive - Effects on Newborn - behavioral

REFERENCE :

FCIOD7 Food and Chemical Toxicology. (Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523) V.20- 1982- Volume(issue)/page/year: 22,963,1984

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Rodent - rat  
 DOSE : 922 mg/kg  
 SEX/DURATION : male 2 week(s) pre-mating  
 female 2 week(s) pre-mating - 21 day(s) post-birth

TOXIC EFFECTS :  
 Reproductive - Effects on Newborn - viability index (e.g., # alive at day 4 per # born alive)

REFERENCE :

FCIOD7 Food and Chemical Toxicology. (Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523) V.20- 1982- Volume(issue)/page/year: 22,963,1984

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Rodent - rat  
 DOSE : 300 mg/kg  
 SEX/DURATION : female 9 day(s) after conception

TOXIC EFFECTS :  
 Reproductive - Fertility - post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants)  
 Reproductive - Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus)  
 Reproductive - Effects on Embryo or Fetus - fetal death

REFERENCE :

IJADAB Teratology. The International Journal of Abnormal Development. (Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003) V.1- 1968- Volume(issue)/page/year: 40,676,1989

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Rodent - hamster  
 DOSE : 3600 mg/kg  
 SEX/DURATION : female 5-16 day(s) after conception

TOXIC EFFECTS :  
 Reproductive - Effects on Newborn - growth statistics (e.g.%, reduced weight gain)

REFERENCE :

JONUAI Journal of Nutrition. (Subscription Dept., 9650 Rockville Pike, Bethesda, MD 20014) V.1- 1928- Volume(issue)/page/year: 87,394,1965

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Mammal - species unspecified  
 DOSE : 294 mg/kg  
 SEX/DURATION : female 30 day(s) pre-mating

TOXIC EFFECTS :  
 Reproductive - Maternal Effects - parturition

REFERENCE :

JTEHD6 Journal of Toxicology and Environmental Health. (Hemisphere Pub., 1025 Vermont Ave., NW, Washington, DC 20005) V.1- 1975/76- Volume(issue)/page/year: 10,459,1982

TYPE OF TEST : TDLo - Lowest published toxic dose  
 ROUTE OF EXPOSURE : Oral  
 SPECIES OBSERVED : Mammal - species unspecified  
 DOSE : 1177 mg/kg  
 SEX/DURATION : female 30 day(s) pre-mating

TOXIC EFFECTS :  
 Reproductive - Effects on Newborn - growth statistics (e.g.%, reduced weight gain)

REFERENCE :

JTEHD6 Journal of Toxicology and Environmental Health. (Hemisphere Pub., 1025 Vermont Ave., NW, Washington, DC 20005) V.1- 1975/76- Volume(issue)/page/year: 10,459,1982

\*\* MUTATION DATA \*\*

TYPE OF TEST : Cytogenetic analysis  
 TEST SYSTEM : Rodent - rat Ascites tumor  
 DOSE/DURATION : 500 mg/kg

REFERENCE :

GANNA2 Gann. Japanese Journal of Cancer Research. (Tokyo, Japan) V.1-75, 1907-84. For publisher information, see JJCREP. Volume(issue)/page/year: 54,155,1963

\*\*\* REVIEWS \*\*\*

TOXICOLOGY REVIEW  
 PCNA88 Pediatric Clinics of North America. (W.B. Saunders Co., W. Washington Sq., Philadelphia, PA 19105) V.1- 1954- Volume(issue)/page/year: 8,413,1961

\*\*\* U.S. STANDARDS AND REGULATIONS \*\*\*

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION  
 FEREAC Federal Register. (U.S. Government Printing Office, Supt. of Documents, Washington, DC 20402) V.1- 1936- Volume(issue)/page/year: 54,7740,1989

\*\*\* NIOSH STANDARDS DEVELOPMENT AND SURVEILLANCE DATA \*\*\*

NIOSH OCCUPATIONAL EXPOSURE SURVEY DATA :  
 MOHS - National Occupational Hazard Survey (1974)

MOHS Hazard Code - 81683  
 No. of Facilities: 5350 (estimated)  
 No. of Industries: 60  
 No. of Occupations: 38  
 No. of Employees: 45136 (estimated)

NOES - National Occupational Exposure Survey (1983)  
 NOES Hazard Code - 81683

No. of Facilities: 8947 (estimated)  
 No. of Industries: 95  
 No. of Occupations: 86  
 No. of Employees: 243989 (estimated)  
 No. of Female Employees: 149229 (estimated)

\*\*\* STATUS IN U.S. \*\*\*

EPA TSCA Section 8(b) CHEMICAL INVENTORY  
 EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1998

\*\*\* END OF RECORD \*\*\*