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                    *** CHEMICAL IDENTIFICATION ***

RTECS NUMBER            : TS8050000
CHEMICAL NAME           : Potassium chloride
CAS REGISTRY NUMBER     : 7447-40-7
LAST UPDATED            : 199710
DATA ITEMS CITED        : 33
MOLECULAR FORMULA       : Cl-K
MOLECULAR WEIGHT        : 74.55
WISWESSER LINE NOTATION :  KA  G
COMPOUND DESCRIPTOR     : Mutagen
                          Human
                          Primary Irritant
SYNONYMS/TRADE NAMES :
   * Chlorid draselny
   * Chloropotassuril
   * Dipotassium dichloride
   * Emplets potassium chloride
   * Enseal
   * Kalitabs
   * Kaochlor
   * Kaon-Cl
   * Kaon-Cl 10
   * Kaon-Cl TABS
   * Kay ciel
   * K-Lor
   * Klotrix
   * K-Lyte/Cl
   * K-Predne-dome
   * Monopotassium chloride
   * Pfiklor
   * Potassium monochloride
   * Potavescent
   * Rekawan
   * Slow K
   * Tripotassium trichloride

                        *** HEALTH HAZARD DATA ***

                       ** SKIN/EYE IRRITATION DATA **

TYPE OF TEST            : Standard Draize test
ROUTE OF EXPOSURE       : Administration into the eye
SPECIES OBSERVED        : Rodent - rabbit
DOSE/DURATION           : 500 mg/24H
REACTION SEVERITY       : Mild
REFERENCE :
   28ZPAK "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku,"
   Marhold, J.V., Institut Pro Vychovu Vedoucicn Pracovniku Chemickeho Prumyclu
   Praha, Czechoslovakia, 1972  Volume(issue)/page/year: -,8,1972

                        ** ACUTE TOXICITY DATA **

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Human - infant
DOSE/DURATION           : 938 mg/kg/2D
TOXIC EFFECTS :
   Lungs, Thorax, or Respiration - cyanosis
   Lungs, Thorax, or Respiration - other changes
   Nutritional and Gross Metabolic - changes in potassium
REFERENCE :
   JAMAAP JAMA, Journal of the American Medical Association.  (AMA, 535 N.
   Dearborn St., Chicago, IL 60610)  V.1-    1883-  Volume(issue)/page/year:
   240,1339,1978

TYPE OF TEST            : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Human - woman
DOSE/DURATION           : 60 mg/kg/D
TOXIC EFFECTS :
   Gastrointestinal - nausea or vomiting
   Blood - change in clotting factors
REFERENCE :
   LANCAO Lancet.  (7 Adam St., London WC2N 6AD, UK)  V.1-    1823-
   Volume(issue)/page/year: 2,919,1980

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Human - man
DOSE/DURATION           : 20 mg/kg
TOXIC EFFECTS :
   Cardiac - arrhythmias (including changes in conduction)
   Gastrointestinal - nausea or vomiting
   Blood - change in clotting factors
REFERENCE :
   LANCAO Lancet.  (7 Adam St., London WC2N 6AD, UK)  V.1-    1823-
   Volume(issue)/page/year: 2,919,1980

TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Rodent - rat
DOSE/DURATION           : 2600 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   28ZPAK "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku,"
   Marhold, J.V., Institut Pro Vychovu Vedoucicn Pracovniku Chemickeho Prumyclu
   Praha, Czechoslovakia, 1972  Volume(issue)/page/year: -,8,1972

TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Intraperitoneal
SPECIES OBSERVED        : Rodent - rat
DOSE/DURATION           : 660 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   FCTXAV Food and Cosmetics Toxicology.  (London, UK)  V.1-19, 1963-81.  For
   publisher information, see FCTOD7.  Volume(issue)/page/year: 3,597,1965

TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Intravenous
SPECIES OBSERVED        : Rodent - rat
DOSE/DURATION           : 142 mg/kg
TOXIC EFFECTS :
   Behavioral - convulsions or effect on seizure threshold
   Lungs, Thorax, or Respiration - dyspnea
REFERENCE :
   ARZNAD Arzneimittel-Forschung. Drug Research.  (Editio Cantor Verlag,
   Postfach 1255, W-7960 Aulendorf, Fed. Rep. Ger.)  V.1-    1951-
   Volume(issue)/page/year: 14,1128,1964

TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Rodent - mouse
DOSE/DURATION           : 1500 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   IYKEDH Iyakuhin Kenkyu.  Study of Medical Supplies.  (Nippon Koteisho
   Kyokai, 12-15, 2-chome, Shibuya, Shibuya-ku, Tokyo 150, Japan)  V.1- 1970-
   Volume(issue)/page/year: 21,257,1990

TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Intraperitoneal
SPECIES OBSERVED        : Rodent - mouse
DOSE/DURATION           : 620 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   COREAF Comptes Rendus Hebdomadaires des Seances, Academie des Sciences.
    (Paris, France)  V.1-261, 1835-1965.  For publisher information, see CRASEV.
     Volume(issue)/page/year: 256,1043,1963

TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Intravenous
SPECIES OBSERVED        : Rodent - mouse
DOSE/DURATION           : 117 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   EJTXAZ European Journal of Toxicology and Environmental Hygiene.  (Paris,
   France)  V.7-9, 1974-76. For publisher information, see TOERD9.
   Volume(issue)/page/year: 8,188,1975

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Rodent - guinea pig
DOSE/DURATION           : 2500 mg/kg
TOXIC EFFECTS :
   Behavioral - changes in motor activity (specific assay)
   Behavioral - coma
   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: 35,1,1929

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Intraperitoneal
SPECIES OBSERVED        : Rodent - guinea pig
DOSE/DURATION           : 900 mg/kg
TOXIC EFFECTS :
   Behavioral - changes in motor activity (specific assay)
   Behavioral - coma
   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: 35,1,1929

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Subcutaneous
SPECIES OBSERVED        : Rodent - guinea pig
DOSE/DURATION           : 2550 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   HBAMAK "Abdernalden's Handbuch der Biologischen Arbeitsmethoden." (Leipzig,
   Ger. Dem. Rep.)  Volume(issue)/page/year: 4,1289,1935

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Intravenous
SPECIES OBSERVED        : Rodent - guinea pig
DOSE/DURATION           : 77 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   AEPPAE Naunyn-Schmiedeberg's Archiv fuer Experimentelle Pathologie und
   Pharmakologie.  (Berlin, Ger.) V.110-253, 1925-66.  For publisher
   information, see NSAPCC.  Volume(issue)/page/year: 131,171,1928

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Parenteral
SPECIES OBSERVED        : Rodent - guinea pig
DOSE/DURATION           : 40 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   AEPPAE Naunyn-Schmiedeberg's Archiv fuer Experimentelle Pathologie und
   Pharmakologie.  (Berlin, Ger.) V.110-253, 1925-66.  For publisher
   information, see NSAPCC.  Volume(issue)/page/year: 131,171,1928

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Intraarterial
SPECIES OBSERVED        : Rodent - guinea pig
DOSE/DURATION           : 130 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   AEPPAE Naunyn-Schmiedeberg's Archiv fuer Experimentelle Pathologie und
   Pharmakologie.  (Berlin, Ger.) V.110-253, 1925-66.  For publisher
   information, see NSAPCC.  Volume(issue)/page/year: 131,171,1928

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Subcutaneous
SPECIES OBSERVED        : Bird - pigeon
DOSE/DURATION           : 2210 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   HBAMAK "Abdernalden's Handbuch der Biologischen Arbeitsmethoden." (Leipzig,
   Ger. Dem. Rep.)  Volume(issue)/page/year: 4,1289,1935

TYPE OF TEST            : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE       : Subcutaneous
SPECIES OBSERVED        : Amphibian - frog
DOSE/DURATION           : 2120 mg/kg
TOXIC EFFECTS :
   Details of toxic effects not reported other than lethal dose value
REFERENCE :
   HBAMAK "Abdernalden's Handbuch der Biologischen Arbeitsmethoden." (Leipzig,
   Ger. Dem. Rep.)  Volume(issue)/page/year: 4,1289,1935

                          ** MUTATION DATA **

TYPE OF TEST            : Mutation in microorganisms
TEST SYSTEM             : Bacteria - Salmonella typhimurium
DOSE/DURATION           : 100 ug/plate
REFERENCE :
   NTPTB* NTP Technical Bulletin.  (National Toxicology Program, Landow Bldg.
   3A-06, 7910 Woodmont Ave., Bethesda, MD 20205)  Volume(issue)/page/year:
   APR1982

TYPE OF TEST            : Mutation in microorganisms
TEST SYSTEM             : Yeast - Saccharomyces cerevisiae
DOSE/DURATION           : 2500 mmol/L
REFERENCE :
   GENRA8 Genetical Research.  (Cambridge Univ. Press, 32 E. 57th St., New
   York, NY 10022) V.1-    1960-  Volume(issue)/page/year: 37,173,1981

TYPE OF TEST            : Gene conversion and mitotic recombination
TEST SYSTEM             : Yeast - Saccharomyces cerevisiae
DOSE/DURATION           : 400 mmol/L
REFERENCE :
   MUTAEX Mutagenesis. (Oxford Univ. Press, Pinkhill House, Southfield Road,
   Eynsham, Oxford OX8 1JJ, UK) V.1- 1986-  Volume(issue)/page/year: 1,21,1986

TYPE OF TEST            : Sex chromosome loss and nondisjunction
TEST SYSTEM             : Yeast - Saccharomyces cerevisiae
DOSE/DURATION           : 300 mmol/L
REFERENCE :
   MUTAEX Mutagenesis. (Oxford Univ. Press, Pinkhill House, Southfield Road,
   Eynsham, Oxford OX8 1JJ, UK) V.1- 1986-  Volume(issue)/page/year: 1,21,1986

TYPE OF TEST            : Unscheduled DNA synthesis
ROUTE OF EXPOSURE       : Oral
TEST SYSTEM             : Rodent - rat
DOSE/DURATION           : 1500 ug/kg
REFERENCE :
   JJCREP Japanese Journal of Cancer Research. (Elsevier Science Pub. BV, POB
   211, 1000 AE Amsterdam, Netherlands)  V.76-    1985-
   Volume(issue)/page/year: 80,424,1989

TYPE OF TEST            : Mutation in microorganisms
TEST SYSTEM             : Rodent - mouse Lymphocyte
DOSE/DURATION           : 2048 mg/L
REFERENCE :
   EMMUEG Environmental and Molecular Mutagenesis.  (Alan R. Liss, Inc., 41 E.
   11th St., New York, NY 10003)  V.10-    1987-  Volume(issue)/page/year:
   12(Suppl 13),37,1988

TYPE OF TEST            : DNA damage
TEST SYSTEM             : Rodent - hamster Ovary
DOSE/DURATION           : 260 mmol/L
REFERENCE :
   MUREAV Mutation Research.  (Elsevier Science Pub. B.V., POB 211, 1000 AE
   Amsterdam, Netherlands) V.1-    1964-  Volume(issue)/page/year: 189,15,1987

TYPE OF TEST            : Cytogenetic analysis
TEST SYSTEM             : Rodent - hamster Lung
DOSE/DURATION           : 12 gm/L
REFERENCE :
   FCTOD7 Food and Chemical Toxicology.  (Pergamon Press Inc., Maxwell House,
   Fairview Park, Elmsford, NY 10523)  V.20-    1982- Volume(issue)/page/year:
   22,501,1984

TYPE OF TEST            : Cytogenetic analysis
TEST SYSTEM             : Rodent - hamster Ovary
DOSE/DURATION           : 140 mmol/L
REFERENCE :
   MUREAV Mutation Research.  (Elsevier Science Pub. B.V., POB 211, 1000 AE
   Amsterdam, Netherlands) V.1-    1964-  Volume(issue)/page/year: 189,15,1987

TYPE OF TEST            : Sister chromatid exchange
TEST SYSTEM             : Rodent - hamster Ovary
DOSE/DURATION           : 180 mmol/L
REFERENCE :
   MUREAV Mutation Research.  (Elsevier Science Pub. B.V., POB 211, 1000 AE
   Amsterdam, Netherlands) V.1-    1964-  Volume(issue)/page/year: 189,15,1987

                            *** REVIEWS ***

   TOXICOLOGY REVIEW
   INTEAG Internist.  (Springer-Verlag New York, Inc., Service Center, 44 Hartz
   Way, Secaucus, NJ 07094) V.1-    1960-  Volume(issue)/page/year: 15,7,1974

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

NIOSH OCCUPATIONAL EXPOSURE SURVEY DATA :
   NOHS - National Occupational Hazard Survey (1974)
     NOHS Hazard Code - 60360
       No. of Facilities: 14471 (estimated)
       No. of Industries: 97
       No. of Occupations: 88
       No. of Employees: 122749 (estimated)

   NOES - National Occupational Exposure Survey (1983)
     NOES Hazard Code - 60360
       No. of Facilities: 16061 (estimated)
       No. of Industries: 147
       No. of Occupations: 125
       No. of Employees: 387624 (estimated)
       No. of Female Employees: 175287 (estimated)

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

   EPA TSCA Section 8(b) CHEMICAL INVENTORY

   EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1998


                          *** END OF RECORD ***
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