Imidodicarbonimidicdiamide, N-(4-chlorophenyl)-N'-(1-methylethyl)- (cas 500-92-5)

MSDS

- **Biguanide, 1-(p-chlorophenyl)-5-isopropyl-**

**CAS**: 500-92-5

**SYNONYMS**: * Bigumal
* Chlorguanide
* Chloroguanide
* 1-(p-Chlorophenyl)-5-isopropylbiguanide
* Paludrine
* Proguanil

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**Catalog of Chemical Suppliers, Buyers, Custom Synthesis Companies And Equipment Manufacturers**

[ Biguanide, 1-(p-chlorophenyl)-5-isopropyl- 500-92-5 ]

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*** CHEMICAL IDENTIFICATION ***

- **RTECS NUMBER**: DU1225000
- **CHEMICAL NAME**: Biguanide, 1-(p-chlorophenyl)-5-isopropyl-
- **CAS REGISTRY NUMBER**: 500-92-5
- **BEILSTEIN REFERENCE NO.**: 2811599
- **REFERENCE**: 4-12-00-01198 (Beilstein Handbook Reference)
- **LAST UPDATED**: 199612
- **DATA ITEMS CITED**: 14
- **MOLECULAR FORMULA**: C11-H16-Cl-N5
- **MOLECULAR WEIGHT**: 253.77
- **WISWESSER LINE NOTATION**: GR DMYUM4MYUM4MY1&1
- **COMPOUND DESCRIPTOR**: Drug
  
  Reproductive Effector

- **SYNONYMS/TRADE NAMES**:
  * Bigumal
  * Chlorguanide
  * Chloroguanide
  * 1-(p-Chlorophenyl)-5-isopropylbiguanide
  * Paludrine
  * Proguanil

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*** HEALTH HAZARD DATA ***
** ACUTE TOXICITY DATA **

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 15 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:

TYPE OF TEST : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE : Intravenous
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 40 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
CLDND* Compilation of LD50 Values of New Drugs. (J.R. MacDougal, Dept. of National Health and Welfare, Food and Drug Divisions, 35 John St., Ottawa, Ont., Canada)

TYPE OF TEST : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 50 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
CLDND* Compilation of LD50 Values of New Drugs. (J.R. MacDougal, Dept. of National Health and Welfare, Food and Drug Divisions, 35 John St., Ottawa, Ont., Canada)

TYPE OF TEST : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 25 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
CLDND* Compilation of LD50 Values of New Drugs. (J.R. MacDougal, Dept. of
TYPE OF TEST          : LD50 - Lethal dose, 50 percent kill  
ROUTE OF EXPOSURE     : Intravenous  
SPECIES OBSERVED      : Rodent - mouse  
DOSE/DURATION         : 22 mg/kg  

TOXIC EFFECTS:
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - other esterases

REFERENCE:
BJPCAL British Journal of Pharmacology and Chemotherapy. (London, UK) V.1-33, 1946-68. For publisher information, see BJPCBM. Volume(issue)/page/year: 4,14,1949

TYPE OF TEST          : LD50 - Lethal dose, 50 percent kill  
ROUTE OF EXPOSURE     : Oral  
SPECIES OBSERVED      : Rodent - rabbit  
DOSE/DURATION         : 150 mg/kg  

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

REFERENCE:
CLDND* Compilation of LD50 Values of New Drugs. (J.R. MacDougal, Dept. of National Health and Welfare, Food and Drug Divisions, 35 John St., Ottawa, Ont., Canada)

TYPE OF TEST          : LD50 - Lethal dose, 50 percent kill  
ROUTE OF EXPOSURE     : Intraperitoneal  
SPECIES OBSERVED      : Rodent - rabbit  
DOSE/DURATION         : 50 mg/kg  

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

REFERENCE:
CLDND* Compilation of LD50 Values of New Drugs. (J.R. MacDougal, Dept. of National Health and Welfare, Food and Drug Divisions, 35 John St., Ottawa, Ont., Canada)

TYPE OF TEST          : LDLo - Lowest published lethal dose  
ROUTE OF EXPOSURE     : Oral  
SPECIES OBSERVED      : Bird - chicken  
DOSE/DURATION         : 400 mg/kg  

TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
TYPE OF TEST : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE : Intravenous
SPECIES OBSERVED : Bird - chicken
DOSE/DURATION : 60 mg/kg

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

REFERENCE :
CLDND* Compilation of LD50 Values of New Drugs. (J.R. MacDougal, Dept. of National Health and Welfare, Food and Drug Divisions, 35 John St., Ottawa, Ont., Canada)

** OTHER MULTIPLE DOSE TOXICITY DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 250 mg/kg/5D-I

TOXIC EFFECTS :
Related to Chronic Data - death

REFERENCE :
BJPCAL British Journal of Pharmacology and Chemotherapy. (London, UK)
V.1-33, 1946-68. For publisher information, see BJPCBM.
Volume(issue)/page/year: 5,438,1950

** REPRODUCTIVE DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE : 700 mg/kg
SEX/DURATION : female 7 day(s) pre-mating

TOXIC EFFECTS :
Reproductive - Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated)

REFERENCE :
MEXPAG Medicina Experimentalis. (Basel, Switzerland) V.1-11, 1959-64; V.18-19, 1968-69. For publisher information, see JNMDBO.
Volume(issue)/page/year: 10,361,1964
TYPE OF TEST            : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Rodent - mouse
DOSE                    : 70 mg/kg
SEX/DURATION            : female 7 day(s) pre-mating

TOXIC EFFECTS :
Reproductive - Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated)

REFERENCE :
TXAPA9 Toxicology and Applied Pharmacology. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1- 1959- Volume(issue)/page/year:
13,228,1968

 TYPE OF TEST            : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Rodent - mouse
DOSE                    : 504 mg/kg
SEX/DURATION            : female 42 day(s) pre-mating

TOXIC EFFECTS :
Reproductive - Maternal Effects - ovaries, fallopian tubes

REFERENCE :
MEXPAG Medicina Experimentalis. (Basel, Switzerland) V.1-11, 1959-64; V.18-19, 1968-69. For publisher information, see JNMDBO.
Volume(issue)/page/year: 10,361,1964

 TYPE OF TEST            : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Rodent - mouse
DOSE                    : 252 mg/kg
SEX/DURATION            : female 21 day(s) pre-mating

TOXIC EFFECTS :
Reproductive - Maternal Effects - uterus, cervix, vagina

REFERENCE :
MEXPAG Medicina Experimentalis. (Basel, Switzerland) V.1-11, 1959-64; V.18-19, 1968-69. For publisher information, see JNMDBO.
Volume(issue)/page/year: 10,361,1964

*** END OF RECORD ***