Tiopronin (cas 1953-02-2) MSDS

**CHEMICAL IDENTIFICATION**

- RTECS NUMBER: MC0596500
- CHEMICAL NAME: Glycine, N-(2-mercaptopropionyl)-
- CAS REGISTRY NUMBER: 1953-02-2
- REILSTEIN REFERENCE NO.: 1859822
- LAST UPDATED: 1996.12
- DATA ITEMS CITED: 14
- MOLECULAR FORMULA: C5-H9-N-O3-S
- MOLECULAR WEIGHT: 163.21
- WISWESSER LINE NOTATION: SHY1&1OM1VQ
- COMPOUND DESCRIPTOR: Drug
- Reproductive Effector
- Human

**SYNONYMS/TRADE NAMES**:

- * Acadione
- * Capen
- * Epatil
- * Glycine, N-(2-mercaptop-1-oxopropyl)-
- * Meprin (detoxicant)
- * N-(2-Mercapto-1-oxopropyl)glycine
- * Mercaptopropionylglycine
- * alpha-Mercaptopropionyglycine
- * (2-Mercaptopropionyl)glycine
- * N-(2-Mercaptopropionyl)glycine
- * Mucolysin
- * Thiola
- * Thiopronin
- * Thiopronine
- * Thiosol
- * Tiopronin

**HEALTH HAZARD DATA**

**ACUTE TOXICITY DATA**

- TYPE OF TEST: TDLo - Lowest published toxic dose
- ROUTE OF EXPOSURE: Oral
- SPECIES OBSERVED: Human - woman
- DOSE/DURATION: 3120 mg/kg/26W-I
- TOXIC EFFECTS:
  - Blood - changes in serum composition (e.g. TP, bilirubin, cholesterol)

REFERENCE:

- AJKDOP American Journal of Kidney Diseases. (Grune & Stratton, Inc., Journal Subscription Dept., POB 6280, Duluth, MN 55806) V.1- 1981-
  Volume(issue)/page/year: 19,179,1992

- TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
- ROUTE OF EXPOSURE: Oral
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 1300 mg/kg

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

REFERENCE:
NIIDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,456,1982

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intraperitoneal
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 1400 mg/kg

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

REFERENCE:
FRPSAX Farmaco, Edizione Scientifica. (Casella Postale 227, 27100 Pavia, Italy) V.8-43 1953-88 For publisher information, see FRMCE8 Volume(issue)/page/year: 41,758,1986

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intramuscular
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 1630 mg/kg

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

REFERENCE:

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Oral
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 2330 mg/kg

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

REFERENCE:
NIIDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,456,1982

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intraperitoneal
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 673 mg/kg

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

REFERENCE:

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Subcutaneous
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 2290 mg/kg

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

REFERENCE:

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intravenous
SPECIES OBSERVED: Rodent - rabbit
DOSE/DURATION: 1800 mg/kg

TOXIC EFFECTS:
Behavioral - excitement
Nutritional and Gross Metabolic - body temperature increase

REFERENCE:

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Unreported
SPECIES OBSERVED: Mammal - species unspecified
** OTHER MULTIPLE DOSE TOXICITY DATA **

** REPRODUCTIVE DATA **

** REPRODUCTIVE DATA **

** END OF RECORD ***