10H-Phenothiazine, 10-[3-(4-methyl-1-piperazinyl)propyl]-2-(trifluoromethyl)-, hydrochloride (1:2) (cas 440-17-5) MSDS

**CHEMICAL IDENTIFICATION**

**RTECS NUMBER** : SP1750000

**CHEMICAL NAME** : Phenothiazine, 10-(3-(4-methyl-1-piperazinyl)propyl)-2-(trifluoromethyl)-, dihydrochloride

**CAS REGISTRY NUMBER** : 440-17-5

**LAST UPDATED** : 199707
DATA ITEMS CITED : 18
MOLECULAR FORMULA : C21-H24-F3-N3-S.2Cl-H
MOLECULAR WEIGHT : 480.46
WISEMesser LINE NOTATION : T C666 BN ISJ EXFF B3- ATGN DNTJ D1 &GH 2
COMPpUND DESCRIPTOR : Drug
Mutagen
Reproductive Effector
Human
SYNONYMS/TRADE NAMES :
* Eskazine
* Fluoperazine
* Jatroneural
* 10-(3-(4-Methyl-1-piperazinyl)propyl)-2-trifluoromethylphenothiazine dihydrochloride
* SKF 5019
* Stelazine
* Terfluzine
* Trifluoperazine dihydrochloride
* Trifluoperazine hydrochloride
* Trifluoperazine dihydrochloride
* Trifluoperazine hydrochloride
* Trifluoperazine dihydrochloride
* Trifluperazine dihydrochloride
* Triftazin
* Triphthazine
* Triphthazine dihydrochloride
* Tryptazine
* Tryptazine dihydrochloride

*** HEALTH HAZARD DATA ***

** ACUTE TOXICITY DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Human - man
DOSE/DURATION : 1143 ug/kg/1D-I
TOXIC EFFECTS :
Behavioral - convulsions or effect on seizure threshold
Behavioral - ataxia
Behavioral - muscle contraction or spasticity

REFERENCE :
BJCPAT British Journal of Clinical Practice. (Medical News Group, 1 Bedford St., London WC2E 9HD, UK) V.10(10)- 1956- Volume(issue)/page/year:
TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 543 mg/kg

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

REFERENCE:
Volume(issue)/page/year: 27,866,1977

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 424 mg/kg

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

REFERENCE:
Volume(issue)/page/year: 27,866,1977

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 133 mg/kg

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

REFERENCE:
FATOAO Farmakologiya i Toksikologiya (Moscow). For English translation, see PHTXA6 and RPTOAN. (V/O Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.2- 1939- Volume(issue)/page/year: 41,680,1978

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intravenous
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 82 mg/kg

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

REFERENCE:
APTOA6 Acta Pharmacologica et Toxicologica. (Copenhagen, Denmark) V.1-59,
**TYPE OF TEST**

- LDLo - Lowest published lethal dose

**ROUTE OF EXPOSURE**

- Oral

**SPECIES OBSERVED**

- Primate - monkey

**DOSE/DURATION**

- >20 mg/kg

**TOXIC EFFECTS**

- Behavioral - somnolence (general depressed activity)
- Behavioral - muscle weakness
- Behavioral - rigidity (including catalepsy)

**REFERENCE**

AIPTAK Archives Internationales de Pharmacodynamie et de Therapie. (Heymans Institute of Pharmacology, De Pintelaan 185, B-9000 Ghent, Belgium) V.4-1898- Volume(issue)/page/year: 122,129,1959

**TYPE OF TEST**

- LD50 - Lethal dose, 50 percent kill

**ROUTE OF EXPOSURE**

- Intravenous

**SPECIES OBSERVED**

- Rodent - rabbit

**DOSE/DURATION**

- 65 mg/kg

**TOXIC EFFECTS**

- Details of toxic effects not reported other than lethal dose value

**REFERENCE**

BJPCAL British Journal of Pharmacology and Chemotherapy. (London, UK) V.1-33, 1946-68. For publisher information, see BJPCBM. Volume(issue)/page/year: 25,158,1965

**** OTHER MULTIPLE DOSE TOXICITY DATA **

**TYPE OF TEST**

- TCLo - Lowest published toxic concentration

**ROUTE OF EXPOSURE**

- Inhalation

**SPECIES OBSERVED**

- Rodent - rat

**DOSE/DURATION**

- 660 ug/m³/4h/17W-I

**TOXIC EFFECTS**

- Kidney, Ureter, Bladder - urine volume increased
- Endocrine - changes in thyroid weight
- Blood - changes in erythrocyte (RBC) count

**REFERENCE**


**TYPE OF TEST**

- TCLo - Lowest published toxic concentration
**ROUTE OF EXPOSURE** : Inhalation  
**SPECIES OBSERVED** : Rodent - guinea pig  
**DOSE/DURATION** : 660 ug/m3/4H/17W-I  

**TOXIC EFFECTS** :  
- Kidney, Ureter, Bladder - urine volume increased  
- Endocrine - changes in thyroid weight  
- Blood - changes in erythrocyte (RBC) count  

**REFERENCE** :  
GTPZAB Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. (V/O Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.1-36, 1957-1992. For publisher information, see MTPEEI  
Volume(issue)/page/year: 18(4), 27, 1974

**REPRODUCTIVE DATA**  

**TYPE OF TEST** : TDLo - Lowest published toxic dose  
**ROUTE OF EXPOSURE** : Unreported  
**SPECIES OBSERVED** : Rodent - rat  
**DOSE** : 220 mg/kg  
**SEX/DURATION** : female 1-22 day(s) after conception  

**TOXIC EFFECTS** :  
- Reproductive - Effects on Newborn - biochemical and metabolic  

**REFERENCE** :  
FATOAO Farmakologiya i Toksikologiya (Moscow). For English translation, see PHTXA6 and RPTOAN. (V/O Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.2-1939- Volume(issue)/page/year: 36, 165, 1973

**TYPE OF TEST** : TDLo - Lowest published toxic dose  
**ROUTE OF EXPOSURE** : Oral  
**SPECIES OBSERVED** : Rodent - mouse  
**DOSE** : 80 ug/kg  
**SEX/DURATION** : male 1 day(s) pre-mating  

**TOXIC EFFECTS** :  
- Reproductive - Paternal Effects - spermatogenesis (incl. genetic material, sperm morphology, motility, and count)  

**REFERENCE** :  

**MUTATION DATA**  

**TYPE OF TEST** : Cytogenetic analysis
ROUTE OF EXPOSURE : Unreported  
TEST SYSTEM : Human  
DOSE/DURATION : 26 mg/kg/17W (Intermittent)  

REFERENCE :  
CYTOAN Cytologia. (Japan Pub. Trading Co. (USA), 1255 Howard St., San Francisco, CA 94103) V.1- 1929- Volume(issue)/page/year: 35,552,1970

TYPE OF TEST : Cytogenetic analysis  
ROUTE OF EXPOSURE : Inhalation  
TEST SYSTEM : Rodent - rat  
DOSE/DURATION : 660 ug/m3/4H/17W (Intermittent)  

REFERENCE :  

TYPE OF TEST : Micronucleus test  
ROUTE OF EXPOSURE : Oral  
TEST SYSTEM : Rodent - mouse  
DOSE/DURATION : 80 ug/kg/24H  

REFERENCE :  

TYPE OF TEST : Cytogenetic analysis  
ROUTE OF EXPOSURE : Oral  
TEST SYSTEM : Rodent - mouse  
DOSE/DURATION : 80 ug/kg/24H  

REFERENCE :  

TYPE OF TEST : Sperm Morphology  
ROUTE OF EXPOSURE : Oral  
TEST SYSTEM : Rodent - mouse  
DOSE/DURATION : 80 ug/kg/24H  

REFERENCE :  
NIOSH OCCUPATIONAL EXPOSURE SURVEY DATA :


NOES Hazard Code - X3217
No. of Facilities: 82 (estimated)
No. of Industries: 1
No. of Occupations: 2
No. of Employees: 1343 (estimated)
No. of Female Employees: 617 (estimated)

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

EPA TSCA Section 8(b) CHEMICAL INVENTORY

*** END OF RECORD ***