5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-(((4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl)amino)-2-(4-hydroxyphenyl)acetyl)amino)-3-(((1-methyl-1H-tetrazol-5-yl)thio)methyl)-8-oxo-, sodium salt (1:1), (6R,7R)- (cas 62893-20-3) MSDS

RTECS NUMBER : XI0374000
CHEMICAL NAME : 5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 7-(((4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl)amino)-2-(4-hydroxyphenyl)acetyl)amino)-3-(((1-methyl-1H-tetrazol-5-yl)thio)methyl)-8-oxo-, sodium salt, (6R-(6-alpha,7-beta(R*)))-
CAS REGISTRY NUMBER : 62893-20-3
LAST UPDATED : 199806
DATA ITEMS CITED : 20
MOLECULAR WEIGHT : 667.71
WISWESSER LINE NOTATION : T46 ANV ES GUFJ HVO CMVY Q4MV- AT6NVNVTJ D2s GIS- ETSNNNNJ A1 &-NA-
COMPOUND DESCRIPTOR : Drug
Reproductive Effector
Human
SYNONYMS/TRADE NAMES:
* Cefoperazone sodium
* Sodium cefoperazone
* T-1551

*** HEALTH HAZARD DATA ***

** ACUTE TOXICITY DATA **

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Intravenous
SPECIES OBSERVED: Human - man
DOSE/DURATION: 57 mg/kg/4D-I

TOXIC EFFECTS:
Sense Organs and Special Senses (Olfaction) - effect, not otherwise specified
Kidney, Ureter, Bladder - hematuria
Blood - hemorrhage

REFERENCE:
DICPBB Drug Intelligence and Clinical Pharmacy. (POB 42435, Cincinnati, OH 45242) V.3- 1969- Volume(issue)/page/year: 18,314,1984

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Intravenous
SPECIES OBSERVED: Human - woman
DOSE/DURATION: 220 mg/kg/5D-I

TOXIC EFFECTS:
Gastrointestinal - ulceration or bleeding from large intestine
Blood - hemorrhage

REFERENCE:
DICPBB Drug Intelligence and Clinical Pharmacy. (POB 42435, Cincinnati, OH 45242) V.3- 1969- Volume(issue)/page/year: 20,281,1986

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Parenteral
SPECIES OBSERVED: Human
DOSE/DURATION: 622 mg/kg/10D-I

TOXIC EFFECTS:
Gastrointestinal - other changes
Kidney, Ureter, Bladder - hematuria
Blood - other changes

REFERENCE:
SMJ0AV Southern Medical Journal. (Southern Medical Assoc., POB 2446, Birmingham, AL 35205) V.1- 1908- Volume(issue)/page/year: 80,1360,1987
TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Unreported
SPECIES OBSERVED : Human - man
DOSE/DURATION : 229 mg/kg/4D-I
TOXIC EFFECTS :
   Blood - change in clotting factors
REFERENCE :
   AIMEAS Annals of Internal Medicine. (American College of Physicians, 4200
   Pine St., Philadelphia, PA 19104) V.1- 1927- Volume(issue)/page/year:
   102,721,1985

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : >12 gm/kg
TOXIC EFFECTS :
   Behavioral - somnolence (general depressed activity)
REFERENCE :
   NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki,
   Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
   28(Suppl 6),179,1980

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : >12 gm/kg
TOXIC EFFECTS :
   Behavioral - muscle contraction or spasticity
   Gastrointestinal - other changes
REFERENCE :
   NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki,
   Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
   28(Suppl 6),179,1980

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Subcutaneous
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : >12 gm/kg
TOXIC EFFECTS :
   Skin and Appendages - dermatitis, other (after systemic exposure)
REFERENCE :
   NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki,
TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intravenous
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 4260 mg/kg
TOXIC EFFECTS :
Lungs, Thorax, or Respiration - acute pulmonary edema

REFERENCE :
NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki, Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
28(Suppl 6),179,1980

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Unreported
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 3200 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 : >15 gm/kg
TOXIC EFFECTS :
Behavioral - somnolence (general depressed activity)
Gastrointestinal - hypermotility, diarrhea
Skin and Appendages - hair

REFERENCE :
NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki, Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
28(Suppl 6),179,1980

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 8200 mg/kg
TOXIC EFFECTS :
Lungs, Thorax, or Respiration - acute pulmonary edema
REFERENCE:
NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki, Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
28(Suppl 6),179,1980

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Subcutaneous
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 13 gm/kg
TOXIC EFFECTS :
Details of toxic effects not reported other than lethal dose value

REFERENCE:
NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: -,663,1995

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intravenous
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 3840 mg/kg
TOXIC EFFECTS :
Lungs, Thorax, or Respiration - acute pulmonary edema

REFERENCE:
NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki, Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
28(Suppl 6),179,1980

TYPE OF TEST : LDL0 - Lowest published lethal dose
ROUTE OF EXPOSURE : Intravenous
SPECIES OBSERVED : Mammal - dog
DOSE/DURATION : 6 gm/kg
TOXIC EFFECTS :
Sense Organs and Special Senses (Eye) - lacrimation
Gastrointestinal - hypermotility, diarrhea
Gastrointestinal - nausea or vomiting

REFERENCE:
NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki, Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
28(Suppl 6),179,1980

** OTHER MULTIPLE DOSE TOXICITY DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 120 gm/kg/30D-I

TOXIC EFFECTS:
- Gastrointestinal - peritonitis
- Kidney, Ureter, Bladder - changes in tubules (including acute renal failure, acute tubular necrosis)
- Nutritional and Gross Metabolic - weight loss or decreased weight gain

REFERENCE:
NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki, Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
28(Suppl 6),189,1980

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Intraperitoneal

SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 728 gm/kg/26W-I

TOXIC EFFECTS:
- Gastrointestinal - peritonitis
- Kidney, Ureter, Bladder - urine volume increased
- Nutritional and Gross Metabolic - weight loss or decreased weight gain

REFERENCE:
NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki, Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
28(Suppl 6),189,1980

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Intravenous

SPECIES OBSERVED: Mammal - dog
DOSE/DURATION: 70 gm/kg/35D-I

TOXIC EFFECTS:
- Sense Organs and Special Senses (Eye) - lacrimation
- Gastrointestinal - hypermotility, diarrhea
- Kidney, Ureter, Bladder - changes in tubules (including acute renal failure, acute tubular necrosis)

REFERENCE:
NKRZAZ Chemotherapy (Tokyo). (Nippon Kagaku Ryoho Gakkai, 2-20-8 Kamiosaki, Shinagawa-Ku, Tokyo 141, Japan) V.1- 1953- Volume(issue)/page/year:
28(Suppl 6),220,1980

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Intramuscular

SPECIES OBSERVED: Mammal - dog
DOSE/DURATION: 6 gm/kg/30D-I

TOXIC EFFECTS:
Skin and Appendages - dermatitis, other (after systemic exposure)

REFERENCE:

** REPRODUCTIVE DATA **

TYPE OF TEST            : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE       : Intravenous
SPECIES OBSERVED        : Rodent - rat
DOSE                    : 2750 mg/kg
SEX/DURATION            : female 7-17 day(s) after conception
TOXIC EFFECTS :
Reproductive - Maternal Effects - other effects

REFERENCE:

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

NIOSH OCCUPATIONAL EXPOSURE SURVEY DATA :
NOES Hazard Code - X5283
No. of Facilities: 23 (estimated)
No. of Industries: 1
No. of Occupations: 3
No. of Employees: 667 (estimated)
No. of Female Employees: 562 (estimated)

*** END OF RECORD ***