Aminopyrine sodium sulfonate (cas 68-89-3) MSDS

MSDS: Methanesulfonic acid, (antipyrinylmethylamino)-, monosodium salt

CAS: 68-89-3

SYNONYMS:
* Alginodia
* Algocalmin
* Algopyrine
* Aminopyrine sodium sulfonate
* Analgin
* Antipyrine, 4-(methylamino)-, monomethosulfate, sodium salt
* (Antipyrinylmethylamino)methanesulfonic acid sodium salt
* Barone
* Bonpyrin
* Conmel
* Dimethone
* Di-podil
* Diprofarn
* Dipyrone
* Farmolisina
* Fenildimetil-pirazolon-metilaminometansolfonato sodico
* Feverall
* Fevonil
* Keypyrone
* Metamizol
* Metamizole
* Metamizolo
* Metamizolum
* Metapyrin
* Methampyrene
* Methanesulfonic acid, (antipyrinylmethylamino)-, sodium salt
* Methylaminopyrpyrine sodium methanesulfonate
* 4-Methylaminopyrazolone-1,5-dimethyl-2-phenyl-3-pyrazolone sodium methanesulfonate
* Methylaminophenylpyrazolone methanesulfonate sodium
* Methyelmelubrin
* Methyelmelubrine
* Narone
* Neomelurbrin
* Nevralgina
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Drug
Mutagen
Reproductive Effector
Human

SYNONYMS/TRADE NAMES:

* Alginodia
* Algocalmin
* Algopyrine
* Aminopyrine sodium sulfonate
* Analgin
* Antipyrine, 4-(methylamino)-, monomethosulfate, sodium salt
* (Antipyrinylmethylamino)methanesulfonic acid sodium salt
* Barone
* Bopyrin
* Cormel
* Dimethone
* Di-podil
* Diprofarn
* Dipyrone
* Parmolisina
* Fenildimetil-pirazolon-metilaminometansolfonato sodaico
* Feverall
* Fevonil
* Keppyrone
* Metamizol
* Metamizole
* Metamizolo
* Metamizolum
* Metapyrin
* Methampyron
* Methanesulfonic acid, (antipyrinylmethylamino)-, sodium salt
* Methy laminoantipyrine sodium methanesul fonate
* 4-Methylamino-1,5-dimethyl-2-phenyl-3-pyrazolone sodium methanesulfonate
* Methy laminophenyltrimethylpyrazolone methanesulfonate sodium
* Methy melubrin
* Methy melubrine
* Narone
* Necemelurbrin
* Nevralgina
* Noramidopyrine methanesulfonate sodium
* Noraminopyrine methanesulfonate sodium
* Noramidopyrinium-methanesulphate natrium
* Novaminsulfon
* Novaminsulfone
** HEALTH HAZARD DATA **

** ACUTE TOXICITY DATA **

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 3 gm/kg

TOXIC EFFECTS :
    Behavioral - altered sleep time (including change in righting reflex)
    Behavioral - convulsions or effect on seizure threshold
    Lungs, Thorax, or Respiration - respiratory depression

REFERENCE :
    ARZNAD Arzneimittel-Forschung. Drug Research. (Editio Cantor Verlag,
    Volume(issue)/page/year: 21,719,1971

TYPE OF TEST : LC - Lethal concentration
ROUTE OF EXPOSURE : Inhalation
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : >900 mg/m3
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: Intraperitoneal
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 2470 mg/kg

TOXIC EFFECTS:
Behavioral - somnolence (general depressed activity)
Behavioral - convulsions or effect on seizure threshold
Lungs, Thorax, or Respiration - respiratory depression

REFERENCE:

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Subcutaneous
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 2117 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 - rat
DOSE/DURATION: 2182 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 : Intramuscular
SPECIES OBSERVED  : Rodent - rat
DOSE/DURATION     : 1625 mg/kg

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

REFERENCE :
RPTOAN Russian Pharmacology and Toxicology (English Translation).

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED  : Rodent - mouse
DOSE/DURATION     : 2891 mg/kg

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

REFERENCE :
ARZNAD Arzneimittel-Forschung. Drug Research. (Editio Cantor Verlag,
Volume(issue)/page/year: 24,600,1974

TYPE OF TEST : LC50 - Lethal concentration, 50 percent kill
ROUTE OF EXPOSURE : Inhalation
SPECIES OBSERVED  : Rodent - mouse
DOSE/DURATION     : 37200 mg/m3

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

REFERENCE :
GISAAA Gigiena i Sanitariya. For English translation, see HYSAAV. (V/O
Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.1- 1936-
Volume(issue)/page/year: 34(10),36,1969

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED  : Rodent - mouse
DOSE/DURATION     : 250 mg/kg

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

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: 107,322,1956
TYPE OF TEST : LD50 - Lethal dose, 50 percent kill

ROUTE OF EXPOSURE : Subcutaneous

SPECIES OBSERVED : Rodent - mouse

DOSE/DURATION : 69 mg/kg

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

REFERENCE :
RPTOAN Russian Pharmacology and Toxicology (English Translation).

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill

ROUTE OF EXPOSURE : Intravenous

SPECIES OBSERVED : Rodent - mouse

DOSE/DURATION : 2197 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 : Unreported

SPECIES OBSERVED : Rodent - mouse

DOSE/DURATION : 2750 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 - rabbit

DOSE/DURATION : 2150 mg/kg

TOXIC EFFECTS :
Behavioral - changes in motor activity (specific assay)
Behavioral - muscle contraction or spasticity
Lungs, Thorax, or Respiration - respiratory stimulation

REFERENCE :
GTPZAB Gigiena Truda i Professional'nye Zabolovaniya. Labor Hygiene and Occupational Diseases. (V/O Mezhdunarodnaya Kniga, 113095 Moscow, USSR)
TYPE OF TEST : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE : Subcutaneous
SPECIES OBSERVED : Rodent - rabbit
DOSE/DURATION : 3 gm/kg
TOXIC EFFECTS :
Details of toxic effects not reported other than lethal dose value
REFERENCE :
Volume(issue)/page/year: 5,213,1955

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 61800 mg/kg/30D-I
TOXIC EFFECTS :
Endocrine - changes in spleen weight
Blood - pigmented or nucleated red blood cells
Blood - changes in leukocyte (WBC) 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: 23(12),47,1979

TYPE OF TEST : TCLo - Lowest published toxic concentration
ROUTE OF EXPOSURE : Inhalation
SPECIES OBSERVED  : Rodent - rat
DOSE/DURATION : 192 mg/m³/4H/30D-I

TOXIC EFFECTS :
Behavioral - alteration of classical conditioning
liver - liver function tests impaired

REFERENCE :
GISAAA Gigiena i Sanitariya. For English translation, see HYSAAV. (V/O Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.1-1936-
Volume(issue)/page/year: 34(10),36,1969

TYPE OF TEST : TCLo - Lowest published toxic concentration
ROUTE OF EXPOSURE : Inhalation
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 20 mg/m³/4H/17W-I

TOXIC EFFECTS :
Brain and Coverings - recordings from specific areas of CNS
Blood - change in clotting factors
Nutritional and Gross Metabolic - other changes

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: 23(12),47,1979

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 45500 mg/kg/13W-C

TOXIC EFFECTS :
Liver - other changes
Kidney, Ureter, Bladder - other changes
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - transaminases

REFERENCE :
KSRNAM Kiso to Rinsho. Clinical Report. (Yubunsha Co., Ltd., 1-5, Kanda Suda-Cho, Chiyoda-ku, KS Bldg., Tokyo 101, Japan) V.1-1960-
Volume(issue)/page/year: 11,478,1977

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 60 gm/kg/30D-C

TOXIC EFFECTS :
Blood - changes in erythrocyte (RBC) count
Nutritional and Gross Metabolic - weight loss or decreased weight gain
Related to Chronic Data - death

REFERENCE:
OYYAA2 Oyo Yakuri. Pharmacometrics. (Oyo Yakuri Kenkyukai, CPO Box 180, Sendai 980-91, Japan) V.1- 1967- Volume(issue)/page/year: 9,615,1975

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Intramuscular
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 60 gm/kg/30D-C

TOXIC EFFECTS:
Blood - normocytic anemia
Nutritional and Gross Metabolic - weight loss or decreased weight gain
Related to Chronic Data - death

REFERENCE:
OYYAA2 Oyo Yakuri. Pharmacometrics. (Oyo Yakuri Kenkyukai, CPO Box 180, Sendai 980-91, Japan) V.1- 1967- Volume(issue)/page/year: 9,615,1975

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rabbit
DOSE/DURATION : 6300 mg/kg/30D-I

TOXIC EFFECTS:
Endocrine - other changes
Blood - changes in other cell count (unspecified)

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: 23(12),47,1979

** TUMORIGENIC DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 536 mg/kg/78W-C

TOXIC EFFECTS:
Tumorigenic - neoplastic by RTECS criteria
Lungs, Thorax, or Respiration - tumors
Liver - tumors

REFERENCE:
JJIND8 JNCI, Journal of the National Cancer Institute. (Washington, DC)
TYPE OF TEST : TD - Toxic dose (other than lowest)
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 792 mg/kg/78W-C

TOXIC EFFECTS:
Tumorigenic - neoplastic by RTECS criteria
Lungs, Thorax, or Respiration - tumors
Liver - tumors

REFERENCE:
JJIND8 JNCI, Journal of the National Cancer Institute. (Washington, DC) V.61-79, 1978-87. For publisher information, see JNCIEQ.
Volume(issue)/page/year: 71,1295,1983

** REPRODUCTIVE DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Human - woman
DOSE : 30 mg/kg
SEX/DURATION : lactating female 41 day(s) post-birth

TOXIC EFFECTS:
Reproductive - Effects on Newborn - other neonatal measures or effects

REFERENCE:
HUTODJ Human Toxicology. (Macmillan Press Ltd., Houndmills, Basingstoke, Hants., RG 21 2XS, UK) V.1- 1981- Volume(issue)/page/year: 3,505,1984

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - mouse
DOSE : 750 mg/kg
SEX/DURATION : female 9 day(s) after conception

TOXIC EFFECTS:
Reproductive - Specific Developmental Abnormalities - Central Nervous System

REFERENCE:
JMTHBU Journal of the Medical Association of Thailand. (Business Mgr., Dept. of Microbiology, Faculty of Medicine, Siriraj Hospital, Bangkok 7, Thailand) V.1- 1918- Volume(issue)/page/year: 53,550,1973

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - mouse
DOSE                    : 1 gm/kg
SEX/DURATION            : female 9 day(s) after conception

TOXIC EFFECTS :
Reproductive - Fertility - post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants)

REFERENCE :
JMTHBU Journal of the Medical Association of Thailand. (Businesss Mgr., Dept. of Microbiology, Faculty of Medicine, Siriraj Hospital, Bangkok 7, Thailand) V.1- 1918- Volume(issue)/page/year: 53,550,1973

** MUTATION DATA **

TYPE OF TEST            : Mutation in microorganisms
TEST SYSTEM             : Bacteria - Salmonella typhimurium
DOSE/DURATION           : 1 mg/plate
REFERENCE :

TYPE OF TEST            : DNA damage
TEST SYSTEM             : Bacteria - Escherichia coli
DOSE/DURATION           : 1 mg/L
REFERENCE :
KHFZAN Khimiko-Farmatsevticheskii Zhurnal. Chemical Pharmaceutical Journal. For English translation, see PCJOAU. (V/O Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.1- 1982- Volume(issue)/page/year: 16(10),11,1982

TYPE OF TEST            : DNA repair
TEST SYSTEM             : Bacteria - Bacillus subtilis
DOSE/DURATION           : 5 mg/disc
REFERENCE :
JNUDAT Journal of Nihon University School of Dentistry. (Nihon University School of Dentistry, 1-8-13 Surugadai, Kanda, Chiyoda-ku, Tokyo, 101, Japan) V.1- 1958- Volume(issue)/page/year: 34,183,1992

TYPE OF TEST            : Cytogenetic analysis
TEST SYSTEM             : Human Lymphocyte
DOSE/DURATION           : 250 mg/L
REFERENCE :
TYPE OF TEST : Mutation test systems - not otherwise specified
ROUTE OF EXPOSURE : Intraperitoneal
TEST SYSTEM : Rodent - rat
DOSE/DURATION : 1150 mg/kg
REFERENCE : 
EJGCA9 Egyptian Journal of Genetics and Cytology. (Egyptian Soc. of Genetics, c/o Alexandria Univ., Faculty of Agriculture, Dept. of Genetics, Alexandria, Egypt) V.1- 1972- Volume(issue)/page/year: 11,105,1982

TYPE OF TEST : Cytogenetic analysis
ROUTE OF EXPOSURE : Intraperitoneal
TEST SYSTEM : Rodent - rat
DOSE/DURATION : 50 mg/kg
REFERENCE : 
EJGCA9 Egyptian Journal of Genetics and Cytology. (Egyptian Soc. of Genetics, c/o Alexandria Univ., Faculty of Agriculture, Dept. of Genetics, Alexandria, Egypt) V.1- 1972- Volume(issue)/page/year: 11,105,1982

TYPE OF TEST : Cytogenetic analysis
ROUTE OF EXPOSURE : Oral
TEST SYSTEM : Rodent - mouse
DOSE/DURATION : 15600 ug/kg
REFERENCE : 
CARYAB Caryologia. (Via G. LaPira 4, 50121 Florence, Italy) V.1- 1948- Volume(issue)/page/year: 36,385,1983

TYPE OF TEST : Cytogenetic analysis
TEST SYSTEM : Rodent - hamster Lung
DOSE/DURATION : 980 mg/L
REFERENCE : 

TYPE OF TEST : Cytogenetic analysis
TEST SYSTEM : Rodent - hamster Fibroblast
DOSE/DURATION : 750 mg/L
REFERENCE : 
OEL-RUSSIA: STEL 0.5 mg/m3 JAN 1993

*** END OF RECORD ***