

Material Safety Data Sheet

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Version 1.1
According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

1 - Product and Company Information

Product Name	PRAZOSIN HYDROCHLORIDE
Product Number	81515
Company	Sigma-Aldrich Pty, Ltd Unit 2, 14 Anella Avenue Castle Hill NSW 1765 Australia
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2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number
PRAZOSIN HYDROCHLORIDE	19237-84-4	242-903-4	None
Formula	C19H21N5O4 · HCl		
Molecular Weight	419.9 AMU		
Synonyms	1-(4-Amino-6,7-dimethoxy-2-quinazolinyl)-4-(2-furylcarbonyl)piperazine hydrochloride * 1-(4-Amino-6,7-dimethoxy-2-quinazolinyl)-4-(2-furoyl)piperazine monohydrochloride * CP-12299-1 * Deprazolin * Furazosin hydrochloride * 2-(4-(2-Furoyl)piperazin-1-yl)-4-amino-6,7-dimethoxyquinazoline hydrochloride * Hypovase * Hypovasole * Minipress * Peripress * Piperazine, 1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-(2-furoyl)-, monohydrochloride * Pratsiol * Prazosin clorhidrato (Spanish) * Prazosin hydrochloride * Sinetens		

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Harmful if swallowed. Possible risk of impaired fertility.
Irritating to eyes, respiratory system and skin.

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Call a physician.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance	Color: White Form: Powder	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Flash Point	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
SG/Density	N/A	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	< 1 %	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	Solubility in Water: 1 mg/ml H ₂ O clear, colorless	

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen chloride gas.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: VA1350000

ACUTE TOXICITY

LD50

Oral

Rat

1950 mg/kg

Remarks: Gastrointestinal: Changes in structure or function of salivary glands. Gastrointestinal: Nausea or vomiting. Kidney, Ureter, Bladder: Other changes.

LD50

Intraperitoneal

Rat

102 MG/KG

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Respiratory depression.

LD50

Subcutaneous

Rat

3750 MG/KG

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Respiratory depression.

LD50

Intravenous

Rat

73 MG/KG

Remarks: Behavioral:Convulsions or effect on seizure threshold. Behavioral:Ataxia. Lungs, Thorax, or Respiration:Dyspnea.

LD50

Oral

Mouse

5000 mg/kg

LD50

Intraperitoneal

Mouse

60 MG/KG

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia. Gastrointestinal:Hypermotility, diarrhea.

LD50

Subcutaneous

Mouse

3100 MG/KG

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia. Lungs, Thorax, or Respiration:Respiratory depression.

LD50

Intravenous

Mouse

92 MG/KG

Remarks: Behavioral:Convulsions or effect on seizure threshold. Behavioral:Ataxia. Lungs, Thorax, or Respiration:Dyspnea.

LD50

Oral

Dog

> 700 mg/kg

Remarks: Gastrointestinal:Changes in structure or function of salivary glands. Gastrointestinal:Nausea or vomiting. Kidney, Ureter, Bladder:Other changes.

SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: Nausea, dizziness, and headache. Other symptoms of exposure may include sudden collapse, nasal congestion, dry mouth, depression, diarrhea, drowsiness, hypotension, nervousness, palpitations, difficulty in breathing, urinary frequency, blurred vision, abnormality of sensation, reddened eyes, tinnitus, skin rash, itching, tachycardia,

impotence, vomiting, and fatigue. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION

Vascular system. Nerves.

CHRONIC EXPOSURE - TERATOGEN

Species: Rat

Dose: 4150 MG/KG

Route of Application: Oral

Exposure Time: (8W MALE/2W PRE-9D PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Species: Rat

Dose: 300 MG/KG

Route of Application: Oral

Exposure Time: (9-14D PREG)

Result: Effects on Embryo or Fetus: Fetal death.

Species: Rabbit

Dose: 90 MG/KG

Route of Application: Oral

Exposure Time: (9-14D PREG)

Result: Effects on Embryo or Fetus: Fetal death.

Species: Rabbit

Dose: 450 MG/KG

Route of Application: Oral

Exposure Time: (9-14D PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat

Dose: 8700 MG/KG

Route of Application: Oral

Exposure Time: (14-22D PREG/20D POST)

Result: Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive).

Species: Rat

Dose: 1450 MG/KG

Route of Application: Oral

Exposure Time: (14-22D PREG/20D POST)

Result: Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Species: Rat

Dose: 4 MG/KG

Route of Application: Subcutaneous

Exposure Time: (22D PREG)
Result: Maternal Effects: Parturition.

Species: Rat
Dose: 12 MG/KG
Route of Application: Subcutaneous
Exposure Time: (4-5D PREG)
Result: Maternal Effects: Uterus, cervix, vagina. Maternal Effects: Other effects.

Species: Rat
Dose: 1400 MG/KG
Route of Application: Subcutaneous
Exposure Time: (1D MALE)
Result: Paternal Effects: Testes, epididymis, sperm duct.
Effects on Fertility: Male fertility index (e.g., # males impregnating females per # males exposed to fertile nonpregnant females). Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

Species: Rat
Dose: 30 MG/KG
Route of Application: Implant
Exposure Time: (3D MALE)
Result: Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Effects on Fertility: Male fertility index (e.g., # males impregnating females per # males exposed to fertile nonpregnant females).

Species: Rat
Dose: 9125 MG/KG
Route of Application: Unreported
Exposure Time: (52W MALE)
Result: Paternal Effects: Testes, epididymis, sperm duct.

Species: Dog
Dose: 9125 MG/KG
Route of Application: Unreported
Exposure Time: (52W MALE)
Result: Paternal Effects: Testes, epididymis, sperm duct.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22 62 36/37/38

Harmful if swallowed. Possible risk of impaired fertility.

Irritating to eyes, respiratory system and skin.

S-PHRASES: 28 36

After contact with skin, wash immediately with plenty of water.

Wear suitable protective clothing.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 3

16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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