



# Dominion Veterinary Laboratories Limited

Quality Animal Health Pharmaceuticals - Dedicated Service Since 1950

1199 Sanford Street - Winnipeg, Manitoba R3E 3A1

Telephone: (204) 589.7361 / 589.7362 - Fax: (204) 943.9612

Toll Free: 1.800.465.7122 - www.domvet.com

## Safety Data Sheet PIPERAZINE DIHYDROCHLORIDE

**Date:** January 11, 2022

### 1: IDENTIFICATION

**Product name:** Piperzine 53%  
**Product Code:** 10P-PIPF1  
**D.I.N.:** 00097128

**Supplier:** Dominion Veterinary Labs LTD.  
1199 Sanford St.  
Winnipeg, Manitoba  
R3E 3A1  
Telephone: (204)-586-3484  
Fax: (204)-943-9612

#### Emergency telephone number :

Local Emergency Contact : During Office hours Monday-Friday, 9:00 am - 4.30 pm (CST) : 1-204-589-7361, 800-465-7122.

### SECTION 2. HAZARDS IDENTIFICATION

#### Adverse Effects

Adverse effects may include dizziness, drowsiness, muscle weakness, tremors, abdominal cramps or pain, diarrhea, nausea, vomiting, and headache. Possible allergic reaction to material if inhaled, ingested or in contact with skin.

#### Overdose Effects

Overdose effects may include muscle weakness of the extremities, difficulty breathing, and seizures.

#### Acute

Possible eye, skin, gastrointestinal and/or respiratory tract **irritation.**

#### Chronic

Possible hypersensitization.

#### Inhalation

May cause irritation. Avoid inhalation. Remove to fresh air.

#### Eye

May cause irritation. Flush with copious quantities of water.

#### Skin

May cause irritation. Prolonged or repeated contact may cause sensitization. Flush with copious Quantities of water.

#### Ingestion

May cause irritation. Flush out mouth with water. This material is rapidly absorbed from the gastrointestinal tract.

#### Medical Conditions Aggravated by Exposure

Hypersensitivity to the material, seizure disorders, and impaired liver or kidney function.

#### Cross Sensitivity

Although rare, persons who have been sensitized to ethylenediamine (a substance used as a stabilizer in topical creams), could experience a life-threatening contact allergy when exposed to piperazine.



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## Pregnancy Comments

Adequate and well-controlled pregnancy studies in humans have not been done. Some animal studies have shown no evidence that piperazine causes birth defects, although it has also been reported that it does cause birth defects in rabbits. There have been isolated reports of fetal malformations following clinical use in humans, but no causal relationship has been established.

## SECTION 3: Composition / information on ingredients

Principle Components	Percent	Exposure Limits
Piperazine Di Hydrochloride	Pure Material	n/f

## SECTION 4: First aid measures

### General

Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing give artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.

### Overdose Treatment :

Treatment for piperazine overdose should be symptomatic and supportive and may include the Following :

1. To decrease absorption - Induce vomiting or perform gastric lavage within a few hours of ingestion.
2. Supportive measures - Maintain respiration and circulation. [USP DI 2003]

## SECTION 5: Firefighting measures

Flash Point : n/a

Upper Flammable Limit : n/a

Auto-Ignition Temperature: n/a

Lower Flammable Limit : n/a

### Extinguisher Media

Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

### Fire and Explosion Hazards:

This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

### Firefighting Procedures :

As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

## SECTION 6: Accidental release measures

### Small Spill :

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## SECTION 7: Handling and storage



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## Handling:

As a general rule, when handling USP Reference Standards avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

## Storage :

Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

## SECTION 8: Exposure controls/personal protection

### Respiratory Protection :

When working with small quantities in a well-ventilated area, respiratory protection may not be required. The use of an approved dust mask is recommended.

### Ventilation :

No special ventilation requirements.

### Gloves :

Rubber

### Eye Protection :

Safety Glasses

### Protective Clothing:

Protect exposed skin.

## SECTION 9: Physical and chemical properties

<b>Appearance and Odor</b>	:	White crystalline powder; odorless or slight odor.
<b>Melting Point</b>	:	235 - 238° C
<b>Solubility in Water</b>	:	Very slightly soluble.
<b>Vapor Density</b>	:	n/a
<b>Boiling Point</b>	:	n/a
<b>Evaporation Rate</b>	:	n/a
<b>Specific Gravity</b>	:	n/a
<b>Evaporation Rate</b>	:	n/a
<b>Vapor Pressure</b>	:	n/a
<b>Volatile by Volume</b>	:	n/a

## SECTION 10: Stability and reactivity

<b>Stability</b>	:	The product is stable.
<b>Instability Temperature</b>	:	Not Available.
<b>Conditions of Instability</b>	:	Excess heat, moisture, incompatible materials.
<b>Incompatibility with various substance</b>	:	Reactive with oxidizing agents, reducing agents.
<b>Corrosivity</b>	:	Non-corrosive in presence of glass.
<b>Special Remarks on Reactivity</b>	:	Absorbs moisture from the air.
<b>Special Remarks on Corrosivity</b>	:	Not Available.
<b>Polymerization</b>	:	Will not occur.

## SECTION 11 : Toxicological information



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Oral Rat	:	LD50: n/a
Oral Mouse	:	LD50: n/a
Irritancy Data	:	n/a
Target Organ(s)	:	n/a
Listed as a Carcinogen	:	No
Other	:	A potentially carcinogenic nitrosamine derivative, N-mononitrosopiperazine (MNPz), has been found in the gastric juices and urine of volunteers given therapeutic doses of piperazine. The significance of this finding is unknown. [USP DI 2003]

## SECTION 12: Ecological information

Ecotoxicity	:	Not Available.
BOD5 and COD	:	Not Available.
Products of Biodegradation	:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	:	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	:	Not Available.

## SECTION 13: Disposal considerations

Disposal	:	Dispose of waste in accordance with all applicable Federal, State and local laws.
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## SECTION 14: Transport information

DOT, IMDG, IATA : Not dangerous goods

## SECTION 15: Regulatory information

Inventory status: Listed as a DIN with Health Canada.

## SECTION 16: Other information

The information contained herein is, to the best of our knowledge, true and accurate. Any recommendations or suggestions are made without obligation on our part and the Company accepts no liability to any customers, their employees or any other person whatsoever for any loss, injury or damage whether direct or consequential, which may be caused by an error or emission from this sheet even if negligence or otherwise.

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