

Document Type:
Safety Data Sheet

27 FEB 2024

Palonosetron Hydrochloride Injection

SDS No.: SDS012 Revision No: **01** 

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#### **Section 1 - Identification**

(a) Product Identifier: Palonosetron Hydrochloride Injection

**(b) Product Code:** 83634-777

Common/Trade Name: Palonosetron Hydrochloride Injection

Chemical Name: (3aS)-2-[(S)-1-Azabicyclo [2.2.2]oct-3-yl]-2,3,3a,4,5,6-

hexahydro-1-oxo-1Hbenz[de]isoquinoline hydrochloride

Chemical Family: Antiemetic and Antinauseant agent

(c) Product Use: Prevention of chemotherapy induced nausea and vomiting and

postoperative nausea and vomiting

**Product Type:** Regulated Prescription Drug

Container Information: Vial

(d) Distributor: Avenacy 10 N. Martingale Road, Suite 225, Schaumburg, IL

60173, 847-773-4901

(e) Emergency Telephone: 855-283-6229

### **Section 2 - Hazards Identification**

Classification:	GHS Classifications:
	Acute oral toxicity (Category 4)
	Acute aquatic toxicity (Category 1)
	Chronic aquatic toxicity (Category 1)
Signal Word:	Warning
Hazard Statement	H302 - Harmful if swallowed. (Category 4)
	H400 - Acute aquatic toxicity (Category 1)
	H410 - Very toxic to aquatic life with long lasting effects (Category 1).
Symbols	



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Precautionary Statement(s)	GHS Precautionary Statements:  P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product.  P273 - Avoid release to the environment.  P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  P330 - Rinse mouth.
Unknown Acute Toxicity	P391 - Collect spillage. P501 - Dispose of contents/ container to an approved waste disposal plant.  N/A

# Section 3 – Composition / Information on Ingredients

Chemical Name	Common Name / Synonym	% Composition or other measure	CAS No.	Impurities / Stabilizing Additives
Palonosetron Hydrochloride	Palonosetron Hydrochloride	0.056 mg/mL	135729-62-3	N/A
Mannitol USP	Mannitol USP	41.5 mg/mL	69-65-8	N/A
Edetate Disodium USP	Edetate Disodium USP	0.5 mg/mL	6381-92-6	N/A
Sodium Citrate USP	Sodium Citrate USP	3.7 mg/mL	6132-04-3	N/A
Citric Acid Monohydrate USP	Citric Acid Monohydrate USP	1.56 mg/mL	5949-29-1	N/A
Sodium Hydroxide NF	Sodium Hydroxide NF	q.s. for pH adjustment	1310-73-2	N/A
Hydrochloric acid NF	Hydrochloric acid NF	q.s. for pH adjustment	7647-01-0	N/A
Water for Injection USP	Water for Injection USP	q.s. to 1 mL	7732-18-5	N/A
Nitrogen NF <sup>1</sup>	Nitrogen NF	q.s.	7727-37-9	N/A

### Notes:

1 Nitrogen is used as a processing aid during manufacture.

q.s. = quantity sufficient

<sup>\*0.056</sup> mg Palonosetron Hydrochloride is equivalent to 0.05 mg of Palonosetron base.

<sup>\*</sup>This quantity is theoretical and actual quantities may change based on the assay on as basis of Palonosetron Hydrochloride.



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#### Section 4 – First Aid Measures

**Eye Exposure:** Immediately flush eyes with plenty of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. Consult a doctor.

**Skin Exposure:** Remove from source of exposure. Flush with water for at least 15 minutes

while removing contaminated clothing and shoes. If irritation persists or signs

of toxicity occurs seek medical attention.

**Ingestion:** Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4

cups of milk or water. Consult a doctor.

**Injection:** See patient package insert in shipping carton for complete

information.

**Inhalation:** Remove from exposure and move to fresh air immediately. Consult a doctor.

Notes to

See patient package insert in shipping carton for complete information.

Physician:

### Section 5 – Fire-fighting Measures

(a) Extinguishing Media As with any fire, use extinguishing media appropriate for primary

cause of fire.

(b) Hazardous None anticipated for this product. Avoid the creation of dusty

**Decomposition** atmospheres. **Products:** 

Special Protective

Special Protective No special provisions required beyond normal firefighting equipment / equipment such as flame and chemical resistant clothing and self-

**Precautions:** contained breathing apparatus

### **Section 6 - Accidental Release Measures**

Spill: Clean up spills immediately, observing precautions in the

Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.



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Release to Air:

Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

**Release to Water:** 

Try to prevent the material from entering drains or water courses

### **Section 7 - Handling and Storage**

General Handling: Wash thoroughly after handling. Remove contaminated clothing and wash

before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or

repeated exposure.

**Storage Conditions:** Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° and

30°C (59° and 86°F). [See USP Controlled Room Temperature.]

Do not freeze.

Protect from light. Retain in carton until time of use.

### **Section 8 - Exposure Controls / Personal Protection**

## (a) Exposure Limits:

Compound	Issuer	Type	Exposure Limit
Palonosetron	N/A	N/A	This product does not contain any
hydrochloride			hazardous materials with
			occupational exposure limits
			established by region-specific
			regulatory bodies.

#### (b) Engineering Controls

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

#### (c) Individual Protection Measures

Respiratory Protection:	Dust respirator. Follow local and national regulations.
Eye Protection:	Wear safety glasses and chemical goggles if splashing is possible.
Skin Protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.



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## **Section 9 - Physical and Chemical Properties**

(a)	Appearance	Clear, colorless solution
(b)	Odor	Odorless
(c)	Odor Threshold	Not available
(d)	рН	4.5 to 5.5
(e)	Melting Point:	Not available
<b>(f)</b>	Initial Boiling Point:	100°C (212°F)
(g)	Flash Point	Not available
(h)	Evaporation Rate:	Not available
(i)	Flammability	Not available
(j)	Upper Lower Flammability or Explosion Limits	Not available
(k)	Vapor Pressure:	Similar to water
<b>(l)</b>	Vapor Density:	Similar to water
(m)	Relative Density	1
(n)	Solubility(ies)	Soluble in water
<b>(0)</b>	Partition Coefficient: n-octanol/water	Not available
<b>(p)</b>	Auto-ignition Temperature	Not available
(q)	<b>Decomposition Temperature</b>	Not available
(r)	Viscosity	Not available

## Section 10 - Stability and Reactivity

(a)	Reactivity	Stable under normal conditions of use.
(b)	Chemical Stability	Stable at normal temperatures and pressures
(c)	Possibility of Hazardous Reactions	Not know to occur
(d)	Conditions to Avoid	Strong oxidants and heat.
(e)	Incompatible Materials	Strong oxidizing/reducing agents, strong acids/alkalis.
<b>(f)</b>	Hazardous Decomposition Products	Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.



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## **Section 11 - Toxicological Information**

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(a)	Likely Routes of Exposure	Ingestion, Inhalation, skin, eye
(b)	Symptoms related to the physical, chemical and toxicological characteristics	No known significant effects or critical hazards
(c)	Delayed and immediate effects and also chronic effects from short and long term exposure	Headache and constipation. Major signs of overdose are convulsion, gasping, pallor, cyanosis and collapse.

### (d) Acute Toxicity

Oral LD<sub>50</sub> in rats is 500 mg/kg

### (e) Hazardous Chemical Listings

NTP: Not Listed NTP: Not Listed

OSHA: Not Listed

NIOSH: Not Listed

## **Section 12 - Ecological Information**

(a)	Ecotoxicity	No applicable ecological information found.
(b)	Persistence and degradability	No applicable ecological information found.
(c)	Bioaccumulative potential	No applicable ecological information found.
(d)	Mobility in soil	No applicable ecological information found.
(e)	Other Adverse Effects	No applicable ecological information found.

### **Section 13 - Disposal Considerations**

**Waste Disposal:** To avoid accidental exposure due to waste handling, place waste residue in a segregated, sealed plastic container. Used syringes, needles, and sharps should not be crushed, clipped, or recapped, but placed directly into an approved sharps container. Dispose of any cleanup materials and waste residue per all applicable laws and regulations, e.g., secure chemical landfill disposal.

#### **Section 14 - Transport Information**



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### **Section 15 - Regulatory Information**

Below is selected regulatory information chosen primarily for possible Avenacy usage. This section is not a complete analysis or reference to all applicable regulatory information. Please consider all applicable laws and regulations for your country/state.

### **U.S. Regulations:**

**TSCA** – Not on this list

**CERCLA** - Not on this list

**SARA 313** - This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 302** – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 311/312: No SARA Hazards

**RCRA listed** – Not listed

California Proposition 65 – This product does not contain any chemicals known to State of California to cause cancer, birth defects, or another reproductive harm.

#### **Section 16 - Other Information**

As of the date of effectiveness, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:

Avenacy 10 N. Martingale Road, Suite 225 Schaumburg, IL 60173 847-773-4901

**Glossary:** This glossary contains definitions of general terms used in SDSs. Not all of these Glossary Terms will apply to this SDS.

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
AIHA	American Industrial Hygiene Association
ANSI	American National Standards Institute
CAS Number	Chemical Abstract Service Registry Number
CERCLA	Comprehensive Environmental Response Compensation and Liability Act (of
CHAN	Chemical Hazard Alert Notice



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CHEMTREC	Chamical Transportation Emarganay Contar
DOT	Chemical Transportation Emergency Center  Department of Transportation
DSL	Domestic Substances List
ECHA EINECS	European Chemicals Agency
	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	Environmental Protection Agency
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
HEPA	High Efficiency Particulate Air (Filter)
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
ICAO/IATA	International Civil Aviation Organization/International Air Transport
IMO	International Maritime Organization
KOW	Octanol/Water Partition Coefficient
LEL	Lower Explosive Limit
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
NA	Not Applicable, except in Section 14 where NA = North America
NE	Not Established
NADA	New Animal Drug Application
NAIF	No Applicable Information Found
NCI	National Cancer Institute
NDSL	Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NPDES	National Pollutant Discharge Elimination System
NOS	Not Otherwise Specified
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit (OSHA)
RCRA	Resource Conservation and Recovery Act
RQ	Reportable Quantity
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value (ACGIH)
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average/8 Hours Unless Otherwise Noted
UEL	
UN	Upper Explosive Limit United Nations
USP	United States Pharmacopeia
WEEL	Workplace Environmental Exposure Level (AIHA)
WHMIS	Workplace Hazardous Materials Information System