

Procainamide Hydrochloride Injection, USP;

1000 mg/2 mL (500 mg/mL) or 1000 mg/10 mL (100 mg/mL)

Safety Data Sheet (SDS)

1. IDENTIFICATION

(a) **Product Identifier:** Procainamide Hydrochloride Injection, USP

(b) **Product Code:** NDC 14789-900-02 and 14789-900-10

Common/Trade Name: Procainamide Hydrochloride Injection, USP

Chemical Name: Benzamide, 4-amino-*N*-[2-(diethylamino)ethyl]-, monohydrochloride

Chemical Family: Not Determined

(c) **Product Use:** a Group 1A cardiac antiarrhythmic drug

Product Type: Regulated Prescription Drug

Container Information: Vial

(d) **Distributor:** Nexus Pharmaceuticals, Inc., 175 E. Hawthorn Parkway,

Suite 155, Vernon Hills, IL 60061, 847-996-3790

(e) Emergency Telephone: 800-913-2720

2. HAZARDS IDENTIFICATION

(a) Classification: GHS Classification: Respiratory Sensitization: Category 1; Skin

Sensitization: Category 1.

(b) Signal Word Danger

Hazard statement(s), H317 - May cause an allergic skin reaction.

Symbol(s) H334 - May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Precautionary P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

statement(s): P272 - Contaminated work clothing must not be allowed out of the

workplace

P280 - Wear protective gloves/protective clothing/eye

protection/face protection

P284 - Wear respiratory protection

P304 + P340 - IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing

connortable for breatining

P342 + P311 - If experiencing respiratory symptoms: Call a

POISON CENTRE or doctor/physician

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical

advice/attention

P362 - Take off contaminated clothing and wash before reuse

P501 - Dispose of contents/container in accordance with all local

and national regulations



(c) Description of Hazards: N/A(d) Unknown Acute Toxicity: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

(a) Chemical Name	(b) Common Name / Synonym	% Composition or other measure	(c) CAS No.	(d) Impurities / Stabilizing Additives
Procainamide Hydrochloride	N/A	≤50%	614-39-1	N/A
Methylparaben	N/A	<1%	99-76-3	Preservative
Sodium Metabisulfite	N/A	<1%	7681-57-4	Antioxidant
Sodium Hydroxide	N/A	N/A	1310-73-2	To adjust pH
Hydrochloric Acid	N/A	N/A	7647-01-0	To adjust pH
Water for Injection	N/A	q.s. to 100%	7732-18-5	N/A

4. FIRST AID MEASURES

Eye Exposure: Rinse thoroughly with plenty of water, also under the eyelids. If irritation

occurs or persists, get medical attention.

Skin Exposure: Wash off immediately with soap and plenty of water. If skin

irritation persists, call a physician.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth

with water. Do not induce vomiting unless directed by medical personnel.

Seek medical attention immediately.



Injection: N/A

Inhalation: Move to fresh air If discomfort occurs, get medical attention. Persons

developing anaphylatic (allergic) reactions must receive immediate

medical assistance.

Notes to Physician: None.

5. FIRE-FIGHTING MEASURES

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

primary cause of fire.

(b) Hazardous Formation of toxic gases is possible during heating or fire. Emits

Combustion toxic fumes of carbon monoxide, oxides of nitrogen and hydrogen **Products:**

chloride

Special Protective (c) No special provisions required beyond normal firefighting

Equipment / equipment. As with all fires, evacuate personnel to a safe area. **Precautions:** Fire fighters should wear self-contained breathing apparatus to

avoid inhalation of smoke. Product is aqueous-based and is not

expected to present a fire hazard concern.

6. ACCIDENTAL RELEASE MEASURES

Spill: Isolate area around spill. Put on suitable protective clothing and

> equipment as specified by site spill procedures. Absorb the liquid with suitable material and clean affected area with soap and water. Dispose of spill materials according to the applicable federal, state, or local

regulations.

Release to Air: N/A



Release to Water: N/A

7. HANDLING AND STORAGE

General Handling: No special handling required for hazard control under conditions of

normal product use.

Storage Conditions: No special storage required for hazard control. Protect from light. For

product protection, follow storage recommendations noted on the product case label, the primary container label, or the product insert.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

(a) Exposure Limits

Compound Procainamide HCl	Issuer Pfizer OEL	Type TWA 8hr	Exposure Limit 1.3 mg/m ³
Sodium Metabisulfite	ACGIH	TWA	5 mg/m ³
Sodium Hydroxide	OSHA Final PE ACGIH	ELS TWA Ceiling	$\begin{array}{c} 2 \text{ mg/m}^3 \\ 2 \text{ mg/m}^3 \end{array}$
Hydrochloric Acid	ACGIH	Ceiling	. 2 ppm

(b) Engineering Controls

Ventilation: N/A

(c) Individual Protection Measures

Respiratory Protection:	Respiratory protection is normally not needed during intended product use. However, if the generation of aerosols is likely, and engineering controls are not considered adequate to control potential airborne exposures, the use of an approved air-purifying respirator with a HEPA cartridge (N95 or equivalent) is recommended under conditions where airborne aerosol concentrations are not expected to be excessive. For uncontrolled release events, or if exposure levels are not known, provide respirators that offer a high protection factor such as a powered air purifying respirator or supplied air. A respiratory protection
	program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions
	require respirator use. Personnel who wear respirators should be fit tested and approved for respirator use as required.



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Eye Protection:	Eye protection is normally not required during intended product use. However, if eye contact is likely to occur, the use of chemical safety goggles (as a minimum) is recommended.	
Skin Protection:	If skin contact with the product formulation is likely, the use of latex or nitrile gloves is recommended.	
Other Protective Equipment:	N/A	
Additional Exposure Precautions:	N/A	

9. PHYSICAL AND CHEMICAL PROPERTIES

(a)	Appearance	Liquid; Colorless to Slightly Yellow	
(b)	Odor	N/A	
·(c)	Odor Threshold	N/A	-
:(d)	pН	4.0 -6.0	:
.(e)	Melting Point:	N/A	
. (f)	Initial Boiling Point:	N/A	
$\mathbf{g}(\mathbf{g})$	Flash Point	N/A	
$\mathbf{h}(\mathbf{h})$	Evaporation Rate:	N/A	
.(i)	Flammability	N/A	
·(j)	Upper Lower Flammability or Explosion Limits	N/A	
(k)	Vapor Pressure:	N/A	
·(1)	Vapor Density:	N/A	-
(m)	Relative Density	N/A	
(n)	Solubility(ies)	Soluble in water	
(0)	Partition Coefficient: n-octanol/water	N/A	
(p)	Auto-ignition Temperature	N/A	-
(q)	Decomposition Temperature	N/A	
(r)	Viscosity	N/A	



10. STABILITY AND REACTIVITY

(a)	Reactivity	Not determined.
(b)	Chemical Stability	Stable under standard use and storage conditions.
(c)	Possibility of Hazardous Reactions	Not determined.
(d)	Conditions to Avoid	Not determined.
(e)	Incompatible Materials	Not determined.
(f)	Hazardous Decomposition Products	Thermal decomposition products may include carbon monoxide, carbon dioxide, oxides of nitrogen and hydrogen chloride

11. TOXICOLOGICAL INFORMATION

(a)	Likely Routes of Exposure	Ingestion, Inhalation, skin, eye
(b)	Symptoms related to the physical, chemical and toxicological characteristics	The most common adverse effects seen during clinical use of this drug include gastrointestinal disturbances, abdominal pain, nausea, vomiting, diarrhea, dizziness, seizure, mental depression, confusion, impaired mental state (psychosis), hallucinations, hives, redness and swelling of the skin (urticaria), itching sensation (pruritus), skin rash, increased heart rate (tachycardia).
(c)	Delayed and immediate effects and also chronic effects from short and long term exposure	See (b) above



(d) Acute Toxicity

Component	Type	Route	Species	Dosage
Procainamide	LD_{50}	Oral	Rat	1509 mg/ kg
Hydrochloride			Mouse	701 mg/ kg
		IV	Rat	95 mg/kg
Hydrochloric Acid	LD ₅₀	Oral	Rat	238 - 277 mg/ kg

(e) Hazardous Chemical Listings

NTP: Not listed

IARC: Hydrochloric Acid and Sodium Metabisulfite: Group 3 (Not Classifiable)

OSHA: Not listed

12. ECOLOGICAL INFORMATION

(a)	Ecotoxicity	N/A
(b)	Persistence and degradability	Not determined for product.
(c)	Bioaccumulative potential	Not determined for product.
(d)	Mobility in soil	Not determined for product.
(e)	Other Adverse Effects	N/A

13. DISPOSAL CONSIDERATIONS

<u>Waste Disposal</u>: All waste materials must be properly characterized. Further, disposal should be performed in accordance with the federal, state or local regulatory requirements. <u>Container Handling and Disposal</u>: Dispose of container and unused contents in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

(a)	UN Number	N/A
(b)	UN Proper Shipping Name	N/A
(c)	Transport Hazard Class(es)	Ņ/A
(d)	Packing Group	N/A
(e)	Environmental Hazards	N/A



(f)	Transport in bulk (according	N/A
	to Annex II of MARPOL 73/78	
	and the IBC Code)	
(g)	Special Precautions	N/A

DOT status: Not regulated IMDG Status: Not regulated ICAO/IATA Status: Not Regulated

15. REGULATORY INFORMATION

Below is selected regulatory information chosen primarily for possible Nexus 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:

CERCLA/SARA 313: Hydrochloric Acid: 1.0%

CERCLA/SARA Hazardous Substances and their reportable quantities:

Hydrochloric Acid: 5000 lb/2270 kg; Sodium Hydroxide: 1000 lb/454 kg

CERCLA/SARA 302 TPQs: Hydrochloric Acid: 500 lb

CERCLA/SARA 302 EPCRA RQs: Hydrochloric Acid: 5000 lb

Inventory - United states TSCA - Sect. 8(b): All: Present

16. OTHER INFORMATION

As of the date of issuance, 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.



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

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	RQ	Reportable Quantity



Procainamide Hydrochloride Injection, USP; $1000~mg/2~mL~(500~mg/mL)~or~1000~mg/10~mL~(100~mg/mL)\\ \textbf{Safety Data Sheet (SDS)}$

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	Upper Explosive Limit
UN	United Nations
USP	United States Pharmacopeia
WEEL	Workplace Environmental Exposure Level (AIHA)
WHMIS	Workplace Hazardous Materials Information System