Safety Data Sheet

#### **SECTION 1: Identification**

#### Identification

: Verapamil Hydrochloride Injection Product name

Other means of identification 2 mL Single Dose Vials (1-unit pack carton) NDC 55150-342-01

2 mL Single Dose Vials (5 pack carton) NDC 55150-342-05 2 mL Single Dose Vials (25-unit pack carton) NDC 55150-342-25 4 mL Single Dose Vials (1-unit pack carton) NDC 55150-343-01 4 mL Single Dose Vials (5 pack carton) NDC 55150-343-05

4 mL Single Dose Vials (25-unit pack carton) NDC 55150-343-25

#### Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Pharmaceutical

#### 1.3. Details of the supplier of the safety data sheet

AuroMedics

279 Princeton Highstown Road East Windsor, NJ 08520

## **Emergency telephone number**

Emergency number : 1-888-238-7880

## SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### **GHS US classification**

Skin Irrit. 2 H315 Eye Irrit. 2 H319 Repr. 2 H361

Full text of hazard classes and H-statements: see section 16

#### **Label elements**

#### **GHS US labeling**

Signal word (GHS US)

Hazard pictograms (GHS US)





: Warning

Hazard statements (GHS US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### Other hazards

No additional information available

07/20/2020 EN (English US) Page 1

## Safety Data Sheet

## **Unknown acute toxicity (GHS US)**

Not applicable

## **SECTION 3: Composition/Information on ingredients**

#### **Substances**

Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%	GHS US classification
Water	(CAS-No.) 7732-18-5	< 99	Not classified
Sodium chloride	(CAS-No.) 7647-14-5	< 1	Not classified
Hydrochloric acid	(CAS-No.) 7647-01-0	< 1	Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1A, H314
Sodium hydroxide	(CAS-No.) 1310-73-2	< 1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
Verapamil hydrochloride	(CAS-No.) 152-11-4	0.25	Acute Tox. 3 (Oral), H301 Repr. 2, H361

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First aid measures**

#### 4.1. **Description of first aid measures**

: Remove to fresh air and keep patient at rest. Seek medical attention immediately. First-aid measures after inhalation

First-aid measures after skin contact Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention First-aid measures after eye contact

immediately.

Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not First-aid measures after ingestion

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

#### Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : None anticipated during normal product use.

Symptoms/injuries after skin contact Causes skin irritation. Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

## Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

## **Extinguishing media**

: Use extinguishing media appropriate for surrounding fire. Suitable extinguishing media

Unsuitable extinguishing media

#### Special hazards arising from the substance or mixture 5.2.

Fire hazard : None known.

## Advice for firefighters

Protection during firefighting During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

General measures : No special measures required.

#### 6.1.1 For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

## **Environmental precautions**

Prevent entry to sewers and public waters.

07/20/2020 EN (English US)

## Safety Data Sheet

## 6.3. Methods and material for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.

Methods for cleaning up : Absorb spillage with suitable absorbent material. Place in a suitable container and dispose

according to local, state and federal regulations.

#### 6.4. Reference to other sections

No additional information available

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid prolonged and repeated contact. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at 20° to 25°C (68° to 77°F).

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## Water (7732-18-5)

Not applicable

### Sodium chloride (7647-14-5)

Not applicable

Sodium hydroxide (1310-73-2)   ACGIH ACGIH Ceiling (mg/m³) 2 mg/m³		
		2 mg/m³
OSHA PEL (TWA) (mg/m³)		2 mg/m³
IDLH US IDLH (mg/m³) 10 m		10 mg/m³
NIOSH	NIOSH REL (ceiling) (mg/m³)	2 mg/m³

Hydrochloric acid (7647-01-0)		
ACGIH	ACGIH Ceiling (ppm)	2 ppm
OSHA	OSHA PEL (Ceiling) (mg/m³)	7 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
IDLH	US IDLH (ppm)	50 ppm
NIOSH	NIOSH REL (ceiling) (mg/m³)	7 mg/m³
NIOSH	NIOSH REL (ceiling) (ppm)	5 ppm

## Verapamil hydrochloride (152-11-4)

Not applicable

## 8.2. Exposure controls

Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection : No protection is ordinarily required under normal conditions of use.

Eye protection : Wear safety glasses or goggles. Skin and body protection : Wear suitable working clothes.

Respiratory protection : No protection is ordinarily required under normal conditions of use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Clear.Color: ColorlessOdor: odorless

Odor threshold : No data available pH : 4.9 (4.0-6.5)

07/20/2020 EN (English US) 3/6

## Safety Data Sheet

Melting point : No data available Freezing point : No data available Boiling point No data available Flash point No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic **Explosion limits** No data available Explosive properties : No data available Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Will not occur.

### 10.4. Conditions to avoid

Air contact.

### 10.5. Incompatible materials

None known.

## 10.6. Hazardous decomposition products

None known.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg
Sodium chloride (7647-14-5)	
LD50 oral rat	3 g/kg
LC50 inhalation rat (mg/l)	> 42 g/m³ (Exposure time: 1 h)
ATE US (oral)	3000000 mg/kg
Sodium hydroxide (1310-73-2)	
LD50 oral rat	140 – 340 mg/kg
LD50 dermal rabbit	1350 mg/kg
ATE US (dermal)	1350 mg/kg
Hydrochloric acid (7647-01-0)	
LD50 oral rat	238 – 277 mg/kg
LD50 dermal rabbit	> 5010 mg/kg

07/20/2020 EN (English US) 4/6

# Safety Data Sheet

Hydrochloric acid (7647-01-0)	
LC50 inhalation rat (mg/l)	1.68 mg/l (Exposure time: 1 h)
ATE US (gases)	781 ppmV/4h
Verapamil hydrochloride (152-11-4)	
LD50 oral rat	108 mg/kg
ATE US (oral)	108 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Hydrod	chloric ac	id (7647-0	11-0)

IARC group 3 - Not classifiable

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Sodium chloride (7647-14-5)	
LC50 fish 1	5560 – 6080 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	340.7 – 469.2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Sodium hydroxide (1310-73-2)	
LC50 fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

Sodium chloride (7647-14-5)	
BCF fish 1	(no bioaccumulation)

## 12.4. Mobility in soil

No additional information available

## 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

07/20/2020 EN (English US) 5/6

Safety Data Sheet

## **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

Water (	(7732-18-5)	١
---------	-------------	---

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Sodium chloride (7647-14-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Sodium hydroxide (1310-73-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ 1000 lb

#### Hydrochloric acid (7647-01-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the United States SARA Section 302

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb (gas only)
SARA Section 313 - Emission Reporting	1 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle

## 15.2. US State regulations

## Sodium hydroxide (1310-73-2)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

## Hydrochloric acid (7647-01-0)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

## **SECTION 16: Other information**

## Full text of H-phrases:

Acute toxicity (inhalation:gas) Category 3
Acute toxicity (oral) Category 3
Serious eye damage/eye irritation Category 1
Serious eye damage/eye irritation Category 2
Corrosive to metals Category 1
Reproductive toxicity Category 2
Skin corrosion/irritation Category 1A
Skin corrosion/irritation Category 2
May be corrosive to metals
Toxic if swallowed
Causes severe skin burns and eye damage
Causes skin irritation
Causes serious eye damage
Causes serious eye irritation
Toxic if inhaled
Suspected of damaging fertility or the unborn child

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

07/20/2020 EN (English US) 6/6