Issue Date: 08-6-2020 Revision Number: 01

SAFETY DATA SHEET



Succinylcholine Chloride Injection, USP

1) PRODUCT AND COMPANY IDENTIFICATION

Succinylcholine Chloride Injection **Product name:**

Synonyms: Succinylcholine Chloride Injection

Chemical Family: Not determined

Recommended Use: Pharmaceutical product

Manufacturer: Piramal Critical Care, Inc

3950 Schelden Circle Bethlehem, PA 18017

Supplier: Piramal Critical Care, Inc.

3950 Schelden Circle Bethlehem, PA 18017

24 Hour Emergency Number: CHEMTREC 1-703-527-3887

2) HAZARDS IDENTIFICATION

GHS Classification:

Acute Oral Toxicity: Category 4

Label Elements:



Signal Word: Warning

Hazard Statements: H302 - Harmful if swallowed

Precautionary Statements: $P264-Wash\ hands\ thoroughly\ after\ handling$

P270 – Do not eat, drink or smoke when using this product P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P501 - Dispose of contents/container to an approved waste disposal site

Other Hazards: An Occupational Exposure Value has been established for one or more of the ingredients (see

Section 8).

3) COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Succinylcholine Chloride	71-27-2	200-747-4	Acute Tox 3 (H301)	2-
SODIUM HYDROXIDE	1310-73-2	215-185-5	Skin Corr. 1A (H314)	**
HYDROCHLORIC ACID	7647-01-0	231-595-7	Skin Corr.1B (H314) STOT	**

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
SODIUM CHLORIDE	7647-14-5	231-598-3	Not Listed	*
Propylparaben	94-13-3	202-307-7	Not Listed	*
Water for Injection	7732-18-5	231-791-2	Not Listed	*
Methylparaben	99-76-3	202-785-7	Not Listed	*

Additional Information:

* Proprietary

** to adjust pH

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

4) FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. If irritation occurs or persists, get medical

attention.

Skin Contact: 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.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information

Medical Conditions Aggravated by Exposure: None known

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5) FIRE FIGHTING MEASURES

Flash Point: Not determined

Special Hazards Arising from the Substance or Mixture:

Hazardous Combustion Products:

Formation of toxic gases is possible during heating or fire. May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride, and other chlorine-containing

compounds.

Extinguishing Media: As for primary cause of fire.

Fire Fighting Instructions: During all firefighting activities, wear appropriate protective equipment, including

self-contained breathing apparatus.

Fire and Explosion Hazard: Not applicable

6) ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personnel involved in clean-up should wear

appropriate personal protective equipment (see

Section 8). Minimize exposure.

Environmental Precautions: Place waste in an appropriately labeled, sealed

container for disposal. Care should be taken to avoid

environmental release.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so.

Collect spill with absorbent material. Clean spill

area thoroughly.

Additional Consideration for Large Spills: Non-essential personnel should be evacuated from

affected area. Report emergency situations immediately. Clean up operations should only be

undertaken by trained personnel

7) HANDLING AND STORAGE

Handling: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal

protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere

should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Storage: Store as directed by productpackaging.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General room

ventilation is adequate unless the process generates dust, mist or fumes.

Personal Protective

Equipment: Refer to applicable national standards and regulations in the selection and use of personal protective

equipment (PPE).

Eye Protection: Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the standards in

accordance with EN166, ANSI Z87.1 or international equivalent.)

Skin Protection: Impervious disposable protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations. (Protective clothing must meet the standards in accordance with EN13982,

ANSI 103 or international equivalent.)

Respiratory Protection: Under normal conditions of use, if the applicable Occupational Exposure Limit (OEL) is exceeded, wear an

appropriate respirator with a protection factor sufficient to control exposures to below the OEL (e.g. particulate respirator with a half mask, P3 filter). (Respirators must meet the standards in accordance with

EN140, EN143, ASTM F2704-10 or international equivalent.)

Control Parameters: Refer to available public information for specific member state Occupational Exposure Limits.

SODIUM CHLORIDE

Latvia OEL - TWA 5 mg/m3 Lithuania OEL - TWA 5 mg/m3

SODIUM HYDROXIDE

2 mg/m3 ACGIH Ceiling Threshold Limit: Australia PEAK 2 mg/m3 Austria OEL - MAKs 2 mg/m3Bulgaria OEL - TWA 2.0 mg/m3 Czech Republic OEL - TWA 1 mg/m3 Estonia OEL - TWA 1 mg/m3 France OEL - TWA 2 mg/m3 Greece OEL - TWA 2 mg/m3 Hungary OEL - TWA 2 mg/m3 Japan - OELs - Ceilings 2 mg/m3 Latvia OEL – TWA 0.5 mg/m3OSHA - Final PELS - TWAs: 2 mg/m3 Poland OEL - TWA 0.5 mg/m3 Slovakia OEL - TWA 2 mg/m3 Slovenia OEL - TWA Sweden OEL - TWAs 2 mg/m3 1 mg/m3 Switzerland OEL -TWAs 2 mg/m3

HYDROCHLORIC ACID

ACGIH Ceiling Threshold Limit: 2 ppm Australia PEAK 5 ppm

7.5 mg/m3
Austria OEL - MAKs 5 ppm

8 mg/m3
Belgium OEL - TWA 5 ppm

 $\begin{array}{ccc} & & 8 \text{ mg/m3} \\ \text{Bulgaria OEL - TWA} & & 5 \text{ ppm} \\ & & 8.0 \text{ mg/m3} \end{array}$

 Cyprus OEL - TWA
 5 ppm

 8 mg/m3

 Czech Republic OEL - TWA
 8 mg/m3

Estonia OEL - TWA 5 ppm 8 mg/m3
Germany - TRGS 900 - TWAs 2 ppm 3 mg/m3

 $\begin{array}{ccc} \text{Germany (DFG) - MAK} & 2 \text{ ppm} \\ & 3.0 \text{ mg/m3} \\ \text{Greece OEL - TWA} & 5 \text{ ppm} \\ & 7 \text{mg/m3} \end{array}$

Hungary OEL - TWA 8 mg/m3
Ireland OEL - TWAs 5 ppm 8 mg/m3
Italy OEL - TWA 5 ppm 8 mg/m3

 Japan - OELs - Ceilings
 2 ppm

 3.0 mg/m3

 Latvia OEL - TWA
 5 ppm

 8 mg/m3

 Lithuania OEL - TWA
 5 ppm

5 ppm 8 mg/m3

Luxembourg OEL - TWA 5 ppm 8 mg/m3 Malta OEL – TWA 5 ppm 8 mg/m3 Netherlands OEL - TWA $8\ mg/m3$ Poland OEL – TWA Portugal OEL - TWA 5 mg/m3 5 ppm 8 mg/m3 Romania OEL - TWA 5 ppm 8 mg/m3 Slovakia OEL - TWA 5 ppm 8 mg/m3 Slovenia OEL - TWA 5 ppm 8 mg/m3 Spain OEL - TWA 5 ppm

Switzerland OEL -TWAs 2 ppm 3 mg/m3Vietnam OEL - TWAs 5 mg/m3

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

7.6 mg/m3

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Colorless Odor: No data available **Odor Threshold:** No data available

pH: 3.0-4.5 Molecular Weight: Mixture

Boiling Point: No data available **Melting/Freezing Point:** No data available Vapor Pressure: No data available Vapor Density: No data available **Relative Density:** No data available **Evaporation Rate:** No data available Water Solubility: Soluble

Specific Gravity: No data available Flash Point: No data available **Explosive Limits**: No data available **Ignition Temperature**: No data available Flammability (solid/gas): No data available Partition coefficient: No data available No data available Viscosity:

10) STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Reactivity: No data available

Oxidizing Properties: None **Conditions to Avoid:** None known **Incompatible Materials:** None known

Hazardous

Decomposition Products: Thermal decomposition products may include carbon monoxide, carbon dioxide, oxides of nitrogen and

hydrogen chloride.

11) TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual ingredients.

Known Clinical Effects: The most common adverse effects seen during clinical use of this drug include increase in blood pressure

(hypertension), decrease in blood pressure (hypotension), respiratory arrest, troubled breathing, irregular heartbeat (cardiac arrhythmia), slow heart rate (bradycardia), increased heart rate (tachycardia),

Acute Toxicity: (Species, Route, End Point, Dose)

SODIUM CHLORIDE

 $\begin{array}{ccccc} Rat & Sub-tenon injection (eye) & LC50/1hr > 42 \ g/m3 \\ Rat & Oral & LD 50 & 3g/kg \\ Mouse & Oral & LD 50 & 4g/kg \\ Rabbit & Dermal & LD 50 & > 10g/kg \\ \end{array}$

PROPYLPARABEN

Mouse Oral LD 50 6332 mg/kg Mouse Sub-tenon injection (eye) LD 50 200 mg/kg

HYDROCHLORIC ACID

Rat Oral LD 50 238-277 mg/kg

SUCCINYLCHOLINE CHLORIDE

 Mouse
 Oral
 LD50 125 mg/kg

 Mouse
 IV
 LD50 0.43mg/kg

 Rabbit
 IV
 LD50 0.24mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

SODIUM CHLORIDE

Skin Irritation Rabbit Mild Eye Irritation Rabbit Mild

PROPYLPARABEN

3 Week(s) Rat Oral 27.1 g/kg LOAEL Endocrine system
4 Week(s) Rat Oral 347.2 mg/kg LOAEL Male reproductive system

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

HYDROCHLORIC ACID

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vivo Micronucleus Rat Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

HYDROCHLORIC ACID

IARC: Group 3 (Not Classifiable)

12) ECOLOGICAL INFORMATION

Ecotoxicity Effects: Environmental properties have not been thoroughly investigated. Releases to the

environment should be avoided.

Bioaccumulation:No data availableDegradability:No data availableMobility:No data available

Atmospheric Effects:

13) DISPOSAL CONSIDERATIONS

Waste Disposal: Comply with federal, state, and local regulations in the disposal of waste. Dispose of waste

in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known

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environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14) TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below. Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15) REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

SUCCINYLCHOLINE CHLORIDE

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	200-747-4

SODIUM CHLORIDE

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	231-598-3

PROPYLPARABEN

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	202-307-7

WATER FOR INJECTION

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the	
obligations of Register:	Present
EU EINECS/ELINCS List	231-791-2

SODIUM HYDROXIDE

SODIUM HYDROXIDE	
CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances	1000 lb
and their Reportable Quantities:	454 kg
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 5
for Drugs and Poisons:	Schedule 6
EU EINECS/ELINCS List	215-185-5

METHYLPARABEN

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	202-785-7

HYDROCHLORIC ACID

CERCLA/SARA 313 Emission reporting
CERCLA/SARA Hazardous Substances
and their Reportable Quantities:
CERCLA/SARA - Section 302 Extremely Hazardous 1.0 % 5000 lb 2270 kg 500 lb **TPQs** 5000 lb

CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

California Proposition 65 Not Listed Inventory - United States TSCA - Sect. 8(b) Australia (AICS): Present Present

Standard for the Uniform Scheduling Schedule 5 for Drugs and Poisons: Schedule 6 EU EINECS/ELINCS List 231-595-7

16) OTHER INFORMATION

The information above is believed to be accurate and is intended only as a guide. Piramal Inc. assumes no responsibility for any damages resulting from handling or contact with the above material.