This SDS packet was issued with item:

071437359

N/A





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IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Rocuronium Bromide Injection (Hospira Inc.)

Trade Name: Rocuronium Bromide Injection

Not determined **Chemical Family:**

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product

Details of the Supplier of the Safety Data Sheet

Hospira, A Pfizer Company 275 North Field Drive Lake Forest, Illinois 60045

Emergency telephone number:

1-800-879-3477

Hospira UK Limited

Horizon **Honey Lane** Hurley

Maidenhead, SL6 6RJ **United Kingdom**

Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail:

pfizer-MSDS@pfizer.com

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS - Classification Not classified as hazardous

Label Elements

Signal Word: Not Classified

Hazard Statements: Not classified in accordance with international standards for workplace safety.

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

Section 8).

This document has been prepared in accordance with standards for workplace safety, which Note:

requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous

Material Name: Rocuronium Bromide Injection (Hospira Inc.)

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3. COMPOSITION / INFORMATION ON INGREDIENTS				
Ingredient	CAS Number	EU EINECS/ELINCS	GHS Classification	%
ACETIC ACID	64-19-7	List 200-580-7	Skin Corr. 1A (H314) Flam. Liq. 3 (H226)	**
SODIUM HYDROXIDE	1310-73-2	215-185-5	Skin Corr. 1A (H314)	**

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Rocuronium Bromide	119302-91-9	Not Listed	Not Listed	1
SODIUM CHLORIDE	7647-14-5	231-598-3	Not Listed	*
Sodium Acetate	127-09-3	204-823-8	Not Listed	*
Water for Injection	7732-18-5	231-791-2	Not Listed	*

* Proprietary Additional Information:

** 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

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mixture has been withheld as a trade secret.

For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of 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.

Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not Ingestion:

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 For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information. **Exposure:**

None known

Medical Conditions

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE FIGHTING MEASURES

Extinguishing Media: As for primary cause of fire.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion

Formation of toxic gases is possible during heating or fire.

Products:

Fire / Explosion Hazards: Not applicable

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Advice for Fire-Fighters

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

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.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

Collecting: area thoroughly.

Additional Consideration for Non-essential personnel should be evacuated from affected area. Report emergency

Large Spills: situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe 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.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Incompatible Materials: None known

Specific end use(s): Pharmaceutical drug product

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

ACETIC ACID

ACGIH Threshold Limit Value (TWA) ACGIH Threshold Limit Value (STEL) Australia STEL	10 ppm 15 ppm 15 ppm 37 mg/m ³
Australia TWA	10 ppm
Austria OEL - MAKs	25 mg/m³ 10 ppm 25 mg/m³
Belgium OEL - TWA	10 ppm 25 mg/m ³
Bulgaria OEL - TWA	25.0 mg/m ³
Cyprus OEL - TWA	10 ppm
	25 mg/m ³
Czech Republic OEL - TWA	25 mg/m ³
Denmark OEL - TWA	10 ppm

25 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

0. E	APOSURE CONTROLS / PERSONAL PROTECT	HON
	Estonia OEL - TWA	10 ppm 25 mg/m ³
	E' L. LOEL TWA	
	Finland OEL - TWA	5 ppm
		13 mg/m ³
	Germany - TRGS 900 - TWAs	10 ppm
		25 mg/m ³
	Germany (DFG) - MAK	10 ppm
		25 mg/m ³
	Greece OEL - TWA	10 ppm
		25 mg/m ³
	Hungary OEL - TWA	25 mg/m ³
	Ireland OEL - TWAs	10 ppm
		25 mg/m ³
	Latvia OEL - TWA	10 ppm
	Latvia GLL TWA	25 mg/m ³
	Lithuania OEL - TWA	10 ppm
	Ettitualia OEE - IWA	25 mg/m ³
	Luxembourg OEL TWA	10 ppm
	Luxembourg OEL - TWA	25 mg/m ³
	Malia OFI TIMA	•
	Malta OEL - TWA	10 ppm
	N. d. J. J. O.E.L. TWA	25 mg/m ³
	Netherlands OEL - TWA	25 mg/m ³
	OSHA - Final PELS - TWAs:	10 ppm
		25 mg/m ³
	Poland OEL - TWA	25 mg/m ³
	Portugal OEL - TWA	10 ppm
		25 mg/m ³
	Romania OEL - TWA	10 ppm
		25 mg/m ³
	Slovakia OEL - TWA	10 ppm
		25 mg/m ³
	Slovenia OEL - TWA	10 ppm
		25 mg/m ³
	Spain OEL - TWA	10 ppm
		25 mg/m ³
	Sweden OEL - TWAs	5 ppm
		13 mg/m ³
	Switzerland OEL -TWAs	10 ppm
		25 mg/m ³
	Vietnam OEL - TWAs	25 mg/m ³
SOD	IUM CHLORIDE	
	Latvia OEL - TWA	5 mg/m ³
	Lithuania OEL - TWA	5 mg/m ³
SOD	IUM HYDROXIDE	
	ACGIH Ceiling Threshold Limit:	2 mg/m³
	Australia PEAK	2 mg/m ³
	Austria OEL - MAKs	2 mg/m ³
	Bulgaria OEL - TWA	2.0 mg/m ³
	Czech Republic OEL - TWA	1 mg/m ³
	Estonia OEL - TWA	1 mg/m ³
	France OEL - TWA	2 mg/m ³
	HANNO VEE THA	— · · · · · · · ·

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Greece OEL - TWA 2 mg/m³ **Hungary OEL - TWA** 2 mg/m³ 2 mg/m^3 Japan - OELs - Ceilings 0.5 mg/m^{3} Latvia OEL - TWA **OSHA - Final PELS - TWAs:** 2 mg/m³ 0.5 mg/m³ Poland OEL - TWA 2 mg/m³ Slovakia OEL - TWA Slovenia OEL - TWA 2 mg/m³ 1 mg/m^3 Sweden OEL - TWAs 2 mg/m³ **Switzerland OEL -TWAs**

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.

Rocuronium Bromide

Pfizer Occupational Exposure OEB 3 (control exposure to the range of 10ug/m³ to < 100ug/m³) **Band (OEB):**

SODIUM CHLORIDE

Pfizer Occupational Exposure OEB 1 (control exposure to the range of 1000ug/m³ to 3000ug/m³) **Band (OEB):**

Sodium Acetate

Pfizer Occupational Exposure OEB 1 (control exposure to the range of 1000ug/m³ to 3000ug/m³) **Band (OEB):**

Exposure Controls

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. Keep airborne

contamination levels below the exposure limits listed above in this section.

Personal Protective Refer to applicable national standards and regulations in the selection and use of personal

Equipment: protective equipment (PPE). Contact your safety and health professional or safety equipment

supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and

specific operational processes.

Hands: Impervious gloves (e.g. Nitrile, etc.) are recommended if skin contact with drug product is

possible and for bulk processing operations. (Protective gloves must meet the standards in

accordance with EN374, ASTM F1001 or international equivalent.)

Eyes: 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: Impervious 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.)

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Colourless to Yellow-

orange

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available

Water Solubility: Soluble pH: Soluble

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

SODIUM CHLORIDE
No data available
Water for Injection
No data available
ACETIC ACID
No data available
SODIUM HYDROXIDE

No data available

Sodium Acetate

No data available

Rocuronium Bromide

No data available

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

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

Hazardous Decomposition Thermal decomposition products include oxides of nitrogen, carbon monoxide, carbon dioxide,

Products: and halogen containing gases.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

PZ03127

Material Name: Rocuronium Bromide Injection (Hospira Inc.)

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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), nausea, vomiting, irregular heartbeat (cardiac arrhythmia),

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increased heart rate (tachycardia), respiratory arrest, troubled breathing.

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

SODIUM CHLORIDE

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

ACETIC ACID

Mouse Sub-tenon injection (eye) LC 50 5620 ppm/1H

Rat Oral LD 50 3310mg/kg Rabbit Dermal LD 50 1060uL/kg

Sodium Acetate

Rat Oral LD 50 3500 mg/kg Mouse Oral LD 50 4960mg/kg

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

SODIUM CHLORIDE

Skin Irritation Rabbit Mild Eye Irritation Rabbit Mild

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Rocuronium Bromide

Embryo / Fetal Development Rat Intravenous 0.3 mg/kg NOAEL Not teratogenic Embryo / Fetal Development Rabbit Intravenous 0.02 mg/kg NOAEL Not Teratogenic

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

Rocuronium Bromide

Bacterial Mutagenicity (Ames) Negative Chromosome Aberration Negative

Micronucleus Negative

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

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

Toxicity:

PZ03127

Material Name: Rocuronium Bromide Injection (Hospira Inc.)

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Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

ACETIC ACID

Fathead Minnow NPDES LC-50 96 Hours 88 mg/L Bluegill Sunfish NPDES LC-50 96 Hours 75 mg/L Goldfish NPDES LC-50 24 Hours 423 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: 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 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

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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

Rocuronium Bromide

CERCLA/SARA 313 Emission reporting

California Proposition 65

Not Listed

EU EINECS/ELINCS List

Not Listed

ACETIC ACID

CERCLA/SARA 313 Emission reporting

CERCLA/SARA Hazardous Substances
5000 lb
and their Reportable Quantities:
2270 kg

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15. REGULATORY INFORMATION

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
Standard for the Uniform Scheduling
for Drugs and Poisons:
Schedule 5
Schedule 6

200-580-7

EU EINECS/ELINCS List

SODIUM CHLORIDE

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Eisted

Not

Sodium Acetate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

204-823-8

SODIUM HYDROXIDE

CERCLA/SARA 313 Emission reporting Not Listed **CERCLA/SARA Hazardous Substances** 1000 lb and their Reportable Quantities: 454 kg Not Listed **California Proposition 65** 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

Water for Injection

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the obligations of Register:

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

Present

231-791-2

16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

Flammable liquids-Cat.3; H226 - Flammable liquid and vapor Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage

Data Sources: Pfizer proprietary drug development information. Publicly available toxicity information.

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Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet
