This SDS packet was issued with item:

078009697

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078009689





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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Ciprofloxacin in 5% Dextrose Injection, USP (Hospira Inc.)

Trade Name: Not applicable Chemical Family: Fluoroquinolone

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

Intended Use: Pharmaceutical product used as antibiotic agent

Details of the Supplier of the Safety Data Sheet

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

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

Emergency telephone number: 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).

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

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

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Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Ciprofloxacin	85721-33-1	Not Listed	Aquatic Acute 2 (H401) Aquatic chronic 2 (H411)	< 1
Lactic acid	50-21-5	200-018-0	Eye Dam. 1 (H318) Skin Irrit. 2 (H315)	< 1
Hydrochloric Acid	7647-01-0	231-595-7	STOT SE 3 (H335) Skin Corr. 1A (H314) Press. Gas Acute Tox. 3 (H331)	**

Ingredient	CAS Number	EU	GHS Classification	%
		EINECS/ELINCS		
		List		
Dextrose	14431-43-7	Not Listed	Not Listed	*
Water for injection	7732-18-5	231-791-2	Not Listed	*

Additional Information: * Proprietary

** to adjust pH

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

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: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

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

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

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

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Hazardous Combustion

Formation of toxic gases is possible during heating or fire.

Products:

Fine particles (such as mists) may fuel fires/explosions. Fire / Explosion Hazards:

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

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

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

Collecting: area thoroughly.

Additional Consideration for

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 hands and any exposed skin after removal of PPE. Refer to Section 12 - Ecological Information, for information on potential effects on the environment. 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.

Specific end use(s): Pharmaceutical product used as antibiotic agent

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

Hydrochloric Acid

ACGIH Ceiling Threshold Limit: 2 ppm **Australia PEAK** 5 ppm 7.5 mg/m³ 5 ppm Austria OEL - MAKs 8 mg/m³

Belgium OEL - TWA 5 ppm 8 mg/m³

Bulgaria OEL - TWA 5 ppm 8.0 mg/m³

Cyprus OEL - TWA 5 ppm 8 mg/m³

Czech Republic OEL - TWA 8 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS / PERSONAL PROTECT	TION
Estonia OEL - TWA	5 ppm
	8 mg/m ³
Germany - TRGS 900 - TWAs	2 ppm
•	3 mg/m ³
Germany (DFG) - MAK	2 ppm
• • •	3.0 mg/m ³
Greece OEL - TWA	5 ppm
	7 mg/m ³
Hungary OEL - TWA	8 mg/m ³
Ireland OEL - TWAs	5 ppm
	8 mg/m ³
Italy OEL - TWA	5 ppm
naly occ 144A	8 mg/m ³
Japan - OELs - Ceilings	2 ppm
Sapan - OLLS - Cennigs	3.0 mg/m ³
Latvia OEL - TWA	5 ppm
Latvia OEL - TWA	8 mg/m ³
Lithuania OEL - TWA	5 ppm
Litituania OEL - IWA	8 mg/m ³
Luxembourg OEL TWA	•
Luxembourg OEL - TWA	5 ppm 8 mg/m ³
Malta OEL - TWA	•
Maita OEL - I WA	5 ppm 8 mg/m ³
Netherlands OEL - TWA	
	8 mg/m ³
Poland OEL - TWA	5 mg/m ³
Portugal OEL - TWA	5 ppm
	8 mg/m ³
Romania OEL - TWA	5 ppm
	8 mg/m ³
Slovakia OEL - TWA	5 ppm
	8.0 mg/m ³
Slovenia OEL - TWA	5 ppm
	8 mg/m ³
Spain OEL - TWA	5 ppm
	7.6 mg/m ³
Switzerland OEL -TWAs	2 ppm
	3.0 mg/m^3
Vietnam OEL - TWAs	5 mg/m ³

Ciprofloxacin

Pfizer Occupational Exposure OEB 2 (control exposure to the range of 100ug/m³ to < 1000ug/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

Equipment:

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

protective equipment (PPE).

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.)

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solution Color: Clear, colorless to pale

yellow

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

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:No data availableWater Solubility:No data availableSolubility:Soluble: WaterpH:3.5 - 4.6

Melting/Freezing Point (°C): No data available Boiling Point (°C): No data available. Partition Coefficient: (Method, pH, Endpoint, Value)

Ciprofloxacin

Predicted 7.4 Log D -0.291

Lactic acid
No data available
Dextrose

No data available
Water for injection
No data available
Hydrochloric Acid

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):No data availableFlammability (Solids):No data availableFlash Point (Liquid) (°C):No data availableUpper Explosive Limits (Liquid) (% by Vol.):No data availableLower Explosive Limits (Liquid) (% by Vol.):No data available

Material Name: Ciprofloxacin in 5% Dextrose Injection, USP Page 6 of 9

(Hospira Inc.)

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10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as mists) may fuel fires/explosions. As a precautionary measure, keep

away from heat sources and electrostatic discharge.

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition

Products:

No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

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

ingredients.

Short Term: Accidental ingestion may cause effects similar to those seen in clinical use.

Known Clinical Effects: Quinolones may effect connective tissue structures. Tendonitis and tendon rupture have

occurred as late as several months after quinolone treatment. The most common adverse reactions associated with the use of quinolones include gastrointestinal distress, such as nausea or diarrhea, and central nervous system (CNS) effects, including insomnia, dizziness, and seizures. Convulsion, increased intracranial pressure, and toxic psychosis have been reported in patients receiving quinolones. The most common adverse effects seen during clinical use of this drug include nausea, diarrhea, vomiting, abnormal liver function tests,

increased eosinophils in blood or tissue (eosinophilia), headache, restlessness.

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

Ciprofloxacin

Rat Oral LD50 > 2000 mg/kg Rat IV LD 50 207mg/kg

Lactic acid

Rat Oral LD50 3543 mg/kg Rabbit Dermal LD50 > 2000 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

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

Lactic acid

Eye Irritation Rabbit Severe

Skin Irritation Rabbit Moderate Severe

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

Ciprofloxacin

Reproductive & Fertility Rat Oral 100 mg/kg/day NOAEL No effects at maximum dose Reproductive & Fertility Rabbit Oral 35 mg/kg/day LOAEL Maternal Toxicity, Not Teratogenic

Lactic acid

Reproductive & Fertility Rat Oral 6.25 mg/kg/day NOEL Fertility, Not teratogenic

Material Name: Ciprofloxacin in 5% Dextrose Injection, USP Page 7 of 9

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11. TOXICOLOGICAL INFORMATION

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

Ciprofloxacin

In Vitro Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vitro Cell Transformation Assay Hamster Negative

In Vitro Forward Mutation Assay Mouse Lymphoma Positive

In Vivo Micronucleus Mouse Negative

In Vivo Dominant Lethal Assay Mouse 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

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

avoided.

Toxicity:

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

Ciprofloxacin

Pseudokirchneriella subcapitata (Green Alga) OECD EC50 96 Hours 4.83 mg/L

Brachydanio rerio (Zebra fish) OECD EC50 72 Hours > 100 mg/L Daphnia Magna (Water Flea) OECD EC50 48 Hours 65.3 mg/L

Chronic Aquatic Toxicity: (Species, Method, Duration, Endpoint, Result, Adverse Endpoint)

Ciprofloxacin

Lemna minor (Common Duckweed) OECD 7 Day(s) EC50 3.75 mg/L Growth

Persistence and Degradability:

Biodegradation: (Method, Inoculum, Biodeg Study, Result, Endpoint, Duration, Classification)

Ciprofloxacin

OECD Activated sludge Ready 0% After 28 Day(s) Not Ready

Bio-accumulative Potential:

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

Ciprofloxacin

Predicted 7.4 Log D -0.291

Mobility in Soil: No data available

Material Name: Ciprofloxacin in 5% Dextrose Injection, USP Page 8 of 9

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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

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

Ciprofloxacin

CERCLA/SARA 313 Emission reportingNot ListedCalifornia Proposition 65Not ListedStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List Not Listed

Lactic acid

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

200-018-0

Dextrose

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Hydrochloric Acid

CERCLA/SARA 313 Emission reporting 1.0 %
CERCLA/SARA Hazardous Substances 5000 lb
and their Reportable Quantities: 2270 kg

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15. REGULATORY INFORMATION

CERCLA/SARA - Section 302 Extremely Hazardous 500 lb

TPQs

CERCLA/SARA - Section 302 Extremely Hazardous 5000 lb

Substances EPCRA RQs

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
Standard for the Uniform Scheduling
for Drugs and Poisons:
Schedule 6
EU EINECS/ELINCS List
Not Listed
Present
Schedule 5
Schedule 6
231-595-7

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

Not Listed

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, inhalation-Cat.3; H331 - Toxic if inhaled

Hazardous to the aquatic environment, acute toxicity-Cat.2; H401 - Toxic to aquatic life

Hazardous to the aquatic environment, chronic toxicity-Cat.2; H411 - Toxic to aquatic life with long lasting effects

Serious eye damage/eye irritation-Cat.1; H318 - Causes serious eye damage

Skin corrosion/irritation-Cat.2; H315 - Causes skin irritation

Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage

Specific target organ toxicity, single exposure; Respiratory tract irritation-Cat.3; H335 - May cause respiratory irritation

Data Sources: Publicly available toxicity information. Safety data sheets for individual ingredients.

Revision date: 23-Aug-2016

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