



Revision date: 01-Feb-2019 Version: 2.1 Page 1 of 8

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

**Product Identifier** 

Material Name: Hydromorphone Hydrochloride Injection, USP CII (Hospira Inc.)

Trade Name: Hydromorphone Hydrochloride Injection, USP

Chemical Family: Mixture

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

Intended Use: Pharmaceutical product used as analgesic

**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

Contact E-Mail:

Hospira UK Limited

Horizon Honey Lane Hurley

Maidenhead, SL6 6RJ United Kingdom

**Emergency telephone number:** 

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

# 2. HAZARDS IDENTIFICATION

CHEMTREC (24 hours): 1-800-424-9300

Classification of the Substance or Mixture GHS - Classification

Reproductive Toxicity: Category 2

pfizer-MSDS@pfizer.com

**Label Elements** 

Signal Word: Warning

Hazard Statements: H361d - Suspected of damaging the unborn child

**Precautionary Statements:** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P405 - Store locked up

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

\_\_\_\_\_

Material Name: Hydromorphone Hydrochloride Injection, USP

CII (Hospira Inc.)

Revision date: 01-Feb-2019 Version: 2.1



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.

Page 2 of 8

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Hydromorphone Hydrochloride	71-68-1	200-762-6	Acute Tox 3 (H301)(H361d)	0.1-0.4

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Citric acid, anhydrous	77-92-9	201-069-1	Not Listed	*
Sodium Citrate	6132-04-3	612-118-5	Not Listed	*
Water for Injection	7732-18-5	231-791-2	Not Listed	*

Additional Information: \* Proprietary

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.

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.

Material Name: Hydromorphone Hydrochloride Injection, USP Page 3 of 8

CII (Hospira Inc.)

Revision date: 01-Feb-2019 Version: 2.1

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

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

Advice for Fire-Fighters

During all firefighting 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** 

Large Spills:

situations immediately. Cleanup operations should only be undertaken by trained personnel.

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

# 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.

Pharmaceutical drug product Specific end use(s):

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

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

**Hydromorphone Hydrochloride** 

Pfizer OEL TWA-8 Hr: 7 TWA; 40 STELµg/m³, Sensitizer

**Exposure Controls** 

Material Name: Hydromorphone Hydrochloride Injection, USP Page 4 of 8

CII (Hospira Inc.)

Revision date: 01-Feb-2019 Version: 2.1

# 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. 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). 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 disposable gloves (e.g. Nitrile, etc.) (double 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 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 full mask, P3 filter). (Respirators must meet the standards in accordance with EN136, EN143, ASTM F2704-10 or international equivalent.)

**Molecular Weight:** 

Mixture

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solution Color: Colorless

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

Molecular Formula: Mixture

Solvent Solubility: No data available Water Solubility: No data available

**pH**: 3.5-5.5

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

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

Water for Injection
No data available
Citric acid, anhydrous
No data available
Sodium Citrate
No data available

**Hydromorphone Hydrochloride** 

No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

Viscosity:

No data available
No data available
No data available
No data available

Flammablity:

Autoignition Temperature (Solid) (°C):No data availableFlammability (Solids):No data availableFlash Point (Liquid) (°C):No data available

PZ03091

Material Name: Hydromorphone Hydrochloride Injection, USP Page 5 of 8

CII (Hospira Inc.)

Revision date: 01-Feb-2019 Version: 2.1

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

No data available
Lower Explosive Limits (Liquid) (% by Vol.):

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: No data available

**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No data available

**Products:** 

# 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: May be absorbed through the skin and cause systemic effects. Use of this drug is habit

forming. Addiction may occur.

**Long Term:** Animal studies have shown a potential to cause adverse effects on the fetus.

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

lightheadedness, dizziness, sedation, sweating, nausea, vomiting, constriction of the pupil

(miosis), respiratory depression, respiratory arrest, circulatory failure, symptoms of

dependence/withdrawal.

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

#### Citric acid, anhydrous

Rat Oral LD50 3000 mg/kg

#### **Hydromorphone Hydrochloride**

Rat Oral LD50 199 mg/kg Mouse Oral LD50 215-261mg/kg Mouse Intravenous LD50 55mg/kg

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

#### Citric acid, anhydrous

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

## Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

#### Hydromorphone Hydrochloride

Reproductive & Fertility Rat Oral7 mg/kg/day NOAEL No evidence of impaired fertility or harm to the fetus

Embryo / Fetal Development Rabbit Oral 50 mg/kg/day NOAEL Not Teratogenic Embryo / Fetal Development Hamster Subcutaneous 14 mg/kg LOEL Teratogenic

Embryo / Fetal Development Mouse Subcutaneous > 15 mg/kg/day LOEL Teratogenic

PZ03091

Material Name: Hydromorphone Hydrochloride Injection, USP Page 6 of 8

CII (Hospira Inc.)

Revision date: 01-Feb-2019 Version: 2.1

# 11. TOXICOLOGICAL INFORMATION

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

**Hydromorphone Hydrochloride** 

Bacterial Mutagenicity (Ames) Negative

Chromosome Aberration Human Lymphocytes Negative

In Vivo Micronucleus Mouse Negative

Carcinogen Status: 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: No data available

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 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

Material Name: Hydromorphone Hydrochloride Injection, USP Page 7 of 8

CII (Hospira Inc.)

Revision date: 01-Feb-2019 Version: 2.1

# 15. REGULATORY INFORMATION

**Hydromorphone Hydrochloride** 

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed **EU EINECS/ELINCS List** 200-762-6

Citric acid, anhydrous

**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** 201-069-1

**Sodium Citrate** 

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed Australia (AICS): Present **EU EINECS/ELINCS List** 612-118-5

Water for Injection

Not Listed **CERCLA/SARA 313 Emission reporting California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **REACH - Annex IV - Exemptions from the** 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, oral-Cat.3; H301 - Toxic if swallowed

Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child

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

Reasons for Revision: Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability

and Reactivity.

**Revision date:** 01-Feb-2019

> Product Stewardship Hazard Communication Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this 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

**End of Safety Data Sheet** 

Prepared by:

Page 8 of 8

Material Name: Hydromorphone Hydrochloride Injection, USP CII (Hospira Inc.) Revision date: 01-Feb-2019 Version: 2.1