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

**Product Identifier** 

Material Name: ZINC (Zinc Chloride Injection) (Hospira, Inc.)

Not established Trade Name: Not determined **Chemical Family:** 

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

Intended Use: Not determined

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** 

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Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Sodium chloride	7647-14-5	231-598-3	Not Listed	*
Zinc Chloride	7646-85-7	231-592-0	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400)	<1.0
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 SE 3 (H335)	**

	Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Water for Ir	njection	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. 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:** 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

No data available

Exposure:

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

**Hazardous Combustion** Formation of toxic gases is possible during heating or fire.

Products:

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

### **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 the spill if it is safe to do so. Absorb spills with non-combustible

**Collecting:** absorbent material and transfer into a labeled container for disposal.

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.

Specific end use(s): Pharmaceutical product

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control Parameters**

#### Sodium chloride

Latvia OEL - TWA 5 mg/m<sup>3</sup>
Lithuania OEL - TWA 5 mg/m<sup>3</sup>

### **Zinc Chloride**

**ACGIH Threshold Limit Value (TWA)**  $1 \text{ mg/m}^3$ **ACGIH Threshold Limit Value (STEL)** 2 mg/m<sup>3</sup> **Australia STEL** 2 mg/m<sup>3</sup> **Australia TWA**  $1 \text{ mg/m}^3$ **Belgium OEL - TWA**  $1 \text{ mg/m}^3$  $1 \text{ mg/m}^3$ Czech Republic OEL - TWA **Denmark OEL - TWA** 0.5 mg/m<sup>3</sup>  $1 \text{ mg/m}^3$ **Estonia OEL - TWA Finland OEL - TWA**  $1 \text{ mg/m}^3$  $1 \text{ mg/m}^3$ France OEL - TWA  $1 \text{ mg/m}^3$ **Greece OEL - TWA**  $1 \text{ mg/m}^3$ Ireland OEL - TWAs

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O EVENCEURE CONTROLS / REDSONAL PROT	FECTION
8. EXPOSURE CONTROLS / PERSONAL PROT	1 mg/m <sup>3</sup>
OSHA - Final PELS - TWAS:	1 mg/m <sup>3</sup>
Poland OEL - TWA	
	1 mg/m <sup>3</sup>
Portugal OEL - TWA	1 mg/m <sup>3</sup>
Spain OEL - TWA	1 mg/m <sup>3</sup>
Sweden OEL - TWAs	1 mg/m <sup>3</sup>
Switzerland OEL -TWAs	1 mg/m <sup>3</sup>
Vietnam OEL - TWAs	1 mg/m <sup>3</sup>
SODIUM HYDROXIDE	
ACGIH Ceiling Threshold Limit:	2 mg/m³
Australia PEAK	2 mg/m <sup>3</sup>
Austria OEL - MAKs	2 mg/m <sup>3</sup>
Bulgaria OEL - TWA	2.0 mg/m <sup>3</sup>
Czech Republic OEL - TWA	1 mg/m <sup>3</sup>
Estonia OEL - TWA	1 mg/m <sup>3</sup>
France OEL - TWA	2 mg/m <sup>3</sup>
Greece OEL - TWA	2 mg/m <sup>3</sup>
Hungary OEL - TWA	2 mg/m <sup>3</sup>
Japan - OELs - Ceilings	2 mg/m <sup>3</sup>
Latvia OEL - TWA	0.5 mg/m <sup>3</sup>
OSHA - Final PELS - TWAs:	2 mg/m <sup>3</sup>
Poland OEL - TWA	0.5 mg/m <sup>3</sup>
Slovakia OEL - TWA	2 mg/m <sup>3</sup>
Slovenia OEL - TWA	2 mg/m <sup>3</sup>
Sweden OEL - TWAs	1 mg/m <sup>3</sup>
Switzerland OEL -TWAs	2 mg/m <sup>3</sup>
HYDROCHLORIC ACID	
ACGIH Ceiling Threshold Limit:	2 ppm
Australia PEAK	5 ppm
Adstralia i EAIX	7.5 mg/m <sup>3</sup>
Austria OEL - MAKs	5 ppm
	8 mg/m <sup>3</sup>
Belgium OEL - TWA	5 ppm
-	8 mg/m <sup>3</sup>
Bulgaria OEL - TWA	5 ppm
	8.0 mg/m <sup>3</sup>
Cyprus OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Czech Republic OEL - TWA	8 mg/m <sup>3</sup>
Estonia OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Germany - TRGS 900 - TWAs	2 ppm
O(DEO) MAK	3 mg/m <sup>3</sup>
Germany (DFG) - MAK	2 ppm
Grand OEL TWA	3.0 mg/m <sup>3</sup>
Greece OEL - TWA	5 ppm 7 mg/m³
Hungary OEL - TWA	8 mg/m <sup>3</sup>
Hungary OEL - TWA Ireland OEL - TWAs	5 ppm
HEIGHU OEL - TVVAS	8 mg/m <sup>3</sup>
	o mg/m

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Italy OEL - TWA 5 ppm 8 mg/m<sup>3</sup> Japan - OELs - Ceilings 2 ppm 3.0 mg/m<sup>3</sup> Latvia OEL - TWA 5 ppm 8 mg/m<sup>3</sup> Lithuania OEL - TWA 5 ppm 8 mg/m<sup>3</sup> 5 ppm **Luxembourg OEL - TWA** 8 mg/m<sup>3</sup> Malta OEL - TWA 5 ppm 8 mg/m<sup>3</sup> **Netherlands OEL - TWA**  $8 \text{ mg/m}^3$ Poland OEL - TWA 5 mg/m<sup>3</sup> Portugal OEL - TWA 5 ppm 8 mg/m<sup>3</sup> Romania OEL - TWA 5 ppm 8 mg/m<sup>3</sup> Slovakia OEL - TWA 5 ppm  $8.0 \text{ mg/m}^3$ 5 ppm Slovenia OEL - TWA 8 mg/m<sup>3</sup> 5 ppm Spain OEL - TWA 7.6 mg/m<sup>3</sup> **Switzerland OEL -TWAs** 2 ppm 3.0 mg/m<sup>3</sup> Vietnam OEL - TWAs 5 mg/m<sup>3</sup>

**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). 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.) 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.) *Use most conservative level of protection based on band or limit.* Individuals with known sensitivity should wear protective

gloves to avoid skin contact.

Eyes: Wear safety glasses as minimum protection. (Safety glasses must meet the standards in

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

**Skin:** Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas. (Protective clothing must meet the standards in accordance with EN13982,

ANSI 103 or international equivalent.)

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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

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equivalent.)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:No data available.Color:No data available.Odor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
PH:
No data available
Partition Coefficient: (Method, pH, Endpoint, Value)

Sodium chloride
No data available
HYDROCHLORIC ACID
No data available
SODIUM HYDROXIDE

No data available

Zinc Chloride

No data available

Water for Injection

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

## 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:** 

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## 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 cause eye and skin irritation (based on components)

Known Clinical Effects: This product contains aluminum that may be toxic. Aluminum may reach toxic levels with

prolonged parenteral administration if kidney function is impaired.

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

Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD50 4000 mg/kg

HYDROCHLORIC ACID

Rat Oral LD 50 238-277 mg/kg

**Zinc Chloride** 

Rat Oral LD50 350 mg/kg

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

Sodium chloride

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

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

HYDROCHLORIC ACID

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vivo Micronucleus Rat Negative

<u>Carcinogen Status:</u> 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 thoroughly investigated. Releases to the environment

should be avoided.

**Toxicity:** 

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

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

Persistence and Degradability: No data available

PZ03202

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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

#### 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

Present

231-598-3

## Zinc Chloride

**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 2 Schedule 6 for Drugs and Poisons: **EU EINECS/ELINCS List** 231-592-0

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## 15. REGULATORY INFORMATION

### 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:

Not Listed

Not Listed

Present

Present

EU EINECS/ELINCS List 231-791-2

#### **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 Schedule 6 for Drugs and Poisons: **EU EINECS/ELINCS List** 215-185-5

#### HYDROCHLORIC ACID

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

**TPQs** 

CERCLA/SARA - Section 302 Extremely Hazardous

Substances EPCRA RQs

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
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

# **16. OTHER INFORMATION**

### Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed

Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life

Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects Skin corrosion/irritation-Cat.1A; Skin corrosion/irritation-Cat.1B; 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:** Safety data sheets for individual ingredients. Publicly available toxicity information.

Revision date: 25-Oct-2016

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

5000 lb

Prepared by:

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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** 

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