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

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Emergency telephone number: Emergency telephone number:

Material Name: Heparin Sodium Injection, Sterile Solution, USP

Trade Name: Heparin Sodium Injection, USP

Chemical Family: Mixture

Intended Use: Pharmaceutical product used as anticoagulant agent

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Benzyl Alcohol	100-51-6	202-859-9	*
Dalteparin Sodium (Heparin Sodium)	9041-08-1	Not listed	1,000-10,000 units/mL

Ingredient	CAS Number	EU EINECS List	%
Sodium chloride	7647-14-5	231-598-3	*
Water	7732-18-5	231-791-2	*

Additional Information: \* Proprietary

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

safety.

## 3. HAZARDS IDENTIFICATION

Appearance: Clear, colorless to light yellow solution

Signal Word: WARNING

Statement of Hazard: May cause allergic reaction.

May cause adverse blood effects

**Additional Hazard Information:** 

**Short Term:** Mild eye irritant in experimental animals .

Known Clinical Effects: Clinical use of this drug has caused hemorrhage, gastrointestinal bleeding, increased bleeding

time. Individuals sensitive to this material or other materials in its chemical class may develop

allergic reactions.

EU Indication of danger: Irritant

**EU Hazard Symbols:** 



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**EU Risk Phrases:** 

R43 - May cause sensitization by skin contact.

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

require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your

workplace.

### 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 skin with soap and water. Remove contaminated clothing. If irritation occurs or persists,

get 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: Generally none required. In accidental exposure to high levels, remove to fresh air. If

discomfort occurs, get medical attention.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: This material produces toxic fumes of nitrogen and sulfur oxides, carbon dioxide, and carbon

monoxide during fires.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

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.

**Measures for Environmental** 

**Protections:** 

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

**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

**General Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage Conditions:** Store as directed by product packaging.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Dalteparin Sodium (Heparin Sodium)** 

Pfizer OEL TWA-8 Hr: 0.2mg/m<sup>3</sup>

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

**Personal Protective Equipment:** 

Hands: Rubber gloves

**Eyes:** Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is

possible.

**Skin:** Not required for the normal use of this product. Wear protective clothing when working with

large quantities.

Respiratory protection: Not required for the normal use of this product. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Solution Color: Colorless to pale straw-

color

Molecular Formula: Mixture Molecular Weight: Mixture

Solubility: Soluble: Water pH: 5.0-7.5

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use.

Conditions to Avoid: None Incompatible Materials: None known

### 11. TOXICOLOGICAL INFORMATION

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

ingredients.

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

**Dalteparin Sodium (Heparin Sodium)** 

Rat Oral LD 50 > 5000 mg/kg Mouse Oral LD 50 > 5000 mg/kg

Mouse Intraperitoneal LD 50 > 2500 mg/kg Rat Intraperitoneal LD 50 2500 mg/kg Mouse Intravenous LD 50 2800 mg/kg

Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD 50 4000 mg/kg

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**Benzyl Alcohol** 

Rat Oral LD50 1.23 g/kg Rat Intravenous LD50 53 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.

<u>Irritation / Sensitization: (Study Type, Species, Severity)</u>

**Dalteparin Sodium (Heparin Sodium)** 

Eye Irritation Rabbit Mild

Sodium chloride

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

**Benzyl Alcohol** 

Eye Irritation Rabbit Severe Skin Irritation Rabbit Moderate Skin Irritation Guinea Pig Moderate

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Sodium chloride

10 Day(s) Rat Oral 12500 mg/kg LOAEL Kidney, Ureter, Bladder

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

**Dalteparin Sodium (Heparin Sodium)** 

Fertility and Embryonic Development Rat Subcutaneous 10 mg/kg/day NOAEL Fertility, Fetotoxicity

Embryo / Fetal Development Rat Intravenous 10,000 mg/kg/day LOAEL Fetotoxicity Embryo / Fetal Development Rabbit Intravenous 2,500 mg/kg/day LOAEL Fetotoxicity

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 investigated. Releases to the environment should be

avoided.

13. DISPOSAL CONSIDERATIONS

**Disposal Procedures:** Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

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## 15. REGULATORY INFORMATION

EU Symbol: Xi EU Indication of danger: Irritant

**EU Risk Phrases:** 

R43 - May cause sensitization by skin contact.

**EU Safety Phrases:** 

S24 - Avoid contact with skin.

S36/37 - Wear suitable protective clothing and gloves.

#### **OSHA Label:**

WARNING

May cause allergic reaction.

May cause adverse blood effects

#### Canada - WHMIS: Classifications

### WHMIS hazard class:

Class D, Division 2, Subdivision B



#### Sodium chloride

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentEU EINECS List231-598-3

#### **Benzyl Alcohol**

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentEU EINECS List202-859-9

## Water

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

Australia (AICS):

EU EINECS List

Present
231-791-2

## **Dalteparin Sodium (Heparin Sodium)**

Inventory - United States TSCA - Sect. 8(b)XUAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

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# **16. OTHER INFORMATION**

**Reasons for Revision:** Updated Section 3 - Hazard Identification.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

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**End of Safety Data Sheet**