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# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product Name HEPARIN SODIUM- heparin sodium injection

Product Code(s) PZ03901

Trade Name: Heparin Sodium Injection, USP

Chemical Family: Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Pharmaceutical product used as anticoagulant agent

### 1.3. Details of the supplier of the safety data sheet

Pfizer Inc Pfizer Ireland Pharmaceuticals

66 Hudson Boulevard East OSG Building

New York, New York 10001 Ringaskiddy, Co. Cork.

1-800-879-3477 Ireland

+353 21 4378701

E-mail address pfizer-MSDS@pfizer.com

### 1.4. Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300 International Chemtrec (24 hours):+1-703-527-3887

### Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

GHS - Classification: This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

### **OSHA Classification**

Hazards not otherwise classified (HNOC)

Not applicable

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

Not applicable

2.2. Label elements

Signal word Not classified

**Hazard statements** Not classified in accordance with international standards for workplace safety.

Supplemental Hazard EUH208 - Contains (benzyl alcohol). May produce an allergic reaction

2.3. Other hazards

Other hazards

An Occupational Exposure Value has been established for one or more of the ingredients

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(see Section 8).

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

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

require the inclusion of all known hazards of the product or its ingredients 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.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

**Substances** Not applicable

### 3.2 Mixtures

Hazardous

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Chemical name	Weight-%	REACH	EC No (EU	Classification	Specific	M-Factor	M-Factor
		registration	Index No)	according to	concentration		(long-term)
		number		Regulation	limit (SCL)		
				(EC) No.			
				1272/2008			
				[CLP]			
BENZYL ALCOHOL	0.945		202-859-9	Acute Tox. 4	Not classified	No data	No data
(CAS #: 100-51-6)			(603-057-00-5)	(H302)		available	available
				Skin Sens. 1B			
				(H317)			
				Eye Irrit. 2			
				(H319)			
NonHazardous							
Chemical name	Weight-%	REACH	EC No (EU	Classification	Specific	M-Factor	M-Factor
		registration	Index No)	according to	concentration		(long-term)
		number		Regulation	limit (SCL)		
				(EC) No.			
				1272/2008			
				[CLP]			
Water	*	-	231-791-2	Not classified	Not classified	No data	No data
(CAS #: 7732-18-5)						available	available
Dalteparin Sodium	1,000, 5,000 or		Not Listed	Not classified	Not classified	No data	No data
(Heparin Sodium)	10,000 USP					available	available
(CAS #: 9041-08-1)	units/mL						
SODIUM CHLORIDE	0.9	-	231-598-3	Not classified	Not classified	No data	No data
(CAS #: 7647-14-5)						available	available

### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Water 7732-18-5	89838.9	No data available	No data available	No data available	No data available

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Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Dalteparin Sodium (Heparin Sodium) 9041-08-1	> 5000	No data available	No data available	No data available	No data available
BENZYL ALCOHOL 100-51-6	1200+ 1230	2000	4.178	No data available	No data available
SODIUM CHLORIDE 7647-14-5	3550	10000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

### **Additional information**

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\* Proprietary

Non-hazardous ingredients provided for completeness. 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.

### Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Inhalation Remove to fresh air. Seek immediate medical attention/advice.

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Eye contact

Consult a physician.

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

medical attention.

Never give anything by mouth to an unconscious person. Wash out mouth with water. Do Ingestion

not induce vomiting unless directed by medical personnel. Seek medical attention

immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and

effects

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

Identification and/or Section 11 - Toxicological Information.

### 4.3. Indication of any immediate medical attention and special treatment needed

None. Note to physicians

# Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical, CO2, alcohol-resistant foam or water spray.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Not applicable.

**Hazardous combustion products** This material produces toxic fumes of nitrogen and sulfur oxides, carbon dioxide, and

carbon monoxide during fires.

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**Explosion data** 

Sensitivity to mechanical impact No information available. No information available. Sensitivity to static discharge

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Personal precautions

Section 8). Minimize exposure.

Use personal protection recommended in Section 8. For emergency responders

6.2. Environmental precautions

**Environmental precautions** Place waste in an appropriately labeled, sealed container for disposal. Care should be

taken to avoid environmental release.

### 6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean

spill area thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

### Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling

Avoid breathing vapors or mists. Avoid contact with skin, eyes or 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.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Pharmaceutical product used as. anticoagulant agent. Specific use(s)

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Control parameters

**Exposure Limits** 

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

**Dalteparin Sodium (Heparin Sodium)** Pfizer OEL TWA-8 Hr: 200 µg/m<sup>3</sup>

**BENZYL ALCOHOL** 

Pfizer OEL TWA-8 Hr: 10 ppm

**BENZYL ALCOHOL** 

Bulgaria TWA: 5.0 mg/m<sup>3</sup>; Czech Republic 40 mg/m<sup>3</sup>

Ceiling: 80 mg/m<sup>3</sup>

Finland TWA: 10 ppm; TWA: 45 mg/m<sup>3</sup>;

TWA-MAK: 22 mg/m<sup>3</sup>; I(2); Germany DFG TWA-MAK: 5 ppm; I(2);

> Peak: 44 mg/m3: Peak: 10 ppm;

TWA-AGW; 5 ppm (exposure factor 2); **Germany TRGS** 

TWA-AGW; 22 mg/m3 (exposure factor 2);

Sk

Ceiling Limit Value 25 mg/m<sup>3</sup> Latvia TWA: 5 mg/m<sup>3</sup>;

TWA-NDS: 240 mg/m<sup>3</sup>; Poland Russia

MAC: 5 mg/m<sup>3</sup>

Skin

Switzerland TWA-MAK: 5 ppm; aerosol, vapour

TWA-MAK: 22 mg/m3; aerosol, vapour

**SODIUM CHLORIDE** 

Latvia TWA: 5 mg/m<sup>3</sup>; Russia MAC: 5 mg/m<sup>3</sup>

**Pfizer Occupational Exposure Band** 

(OEB) Statement:

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.

**SODIUM CHLORIDE** 

Pfizer Occupational Exposure

Band (OEB):

OEB 1 (control exposure to the range of 1000ug/m³ to 3000ug/m³)

8.2. 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

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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.

**Eye/face protection** 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.).

Hand protection 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.).

Skin and body protection 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 half mask, P3 filter). (Respirators must meet the standards in accordance with EN140, EN143, ASTM F2704-10

or international equivalent.).

Thermal hazards No information available.

**Environmental exposure controls** No information available.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

AppearanceSolutionPhysical stateLiquidColorColorless

Odor No information available.

Odor threshold No information available

<u>Property</u> <u>Values</u>

Melting point / freezing point

Boiling point or initial boiling point and boiling range
Flammability (solid, gas)

No data available
No data available

Lower and upper explosion limit/flammability limit

Lower explosion limit
Upper explosion limit
Flash point
No data available

Decomposition temperature
SADT (°C)
No data available

**DH** 5.0-7.5

pH (as aqueous solution)

Kinematic viscosity

Dynamic viscosity

Solubility

Vapor pressure

Density and/or relative density

No data available
Soluble Water
No data available
1.01-1.-39

Bulk density
Liquid Density
No data available
Vapor density
No data available
No data available

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Particle characteristics

**Particle Size** No information available No information available **Particle Size Distribution** 

9.2. Other information

Molecular formula Mixture Molecular weight Mixture

### 9.2.1. Information with regard to physical hazard classes

No information available

### 9.2.2. Other safety characteristics

No information available

### Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact No information available. Sensitivity to static discharge No information available.

10.3. Possibility of hazardous reactions

No information available. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid Fine particles (such as dust and mists) may fuel fires/explosions.

10.5. Incompatible materials

Incompatible materials As a precautionary measure, keep away from strong oxidizers.

### 10.6. Hazardous decomposition products

Hazardous decomposition products No data available.

### Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

ingredients

Short term May cause eye irritation (based on components). May produce allergic reactions following

skin contact.

**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.

Based on available data, the classification criteria are not met. **Acute toxicity** Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitization Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met. STOT - repeated exposure Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Reproductive toxicity Germ cell mutagenicity Based on available data, the classification criteria are not met.

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Carcinogenicity **Aspiration hazard** 

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

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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

**BENZYL ALCOHOL** 

Rat Oral LD 50 1230 mg/kg

Mouse Oral LD 50 1360 mg/kg

Rabbit Dermal LD 50 2 gm/kg

**SODIUM CHLORIDE** 

Rat Sub-tenon injection (eye) LC50/1hr > 42 g/m<sup>3</sup>

Rat Oral LD 50 3 g/kg Mouse Oral LD 50 4 g/kg

Rabbit Dermal LD 50 > 10 g/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Dalteparin Sodium (Heparin Sodium)	> 779000 IU/kg (Rat)	-	-
BENZYL ALCOHOL	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m³ (Rat)4 h
SODIUM CHLORIDE	= 3550 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat)1 h

**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)

Dalteparin Sodium (Heparin Sodium)

Eye Irritation Rabbit Mild

**BENZYL ALCOHOL** 

Eye Irritation Rabbit Severe Skin Irritation Rabbit Minimal

Skin Irritation Guinea Pig Moderate

**SODIUM CHLORIDE** 

Skin irritation Rabbit Mild Eye irritation Rabbit Mild

Reproduction & Development Toxicity: (Duration, 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

Carcinogenicity

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

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**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

### Section 12: ECOLOGICAL INFORMATION

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

be avoided. Based on available data, the classification criteria are not met.

12.1. Toxicity

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

**BENZYL ALCOHOL** 

Pimephales promelas (Fathead Minnow) EPA LC50 96 hours 460 - 770 mg/L Daphnia magna (Water Flea) NPDES OECD EC50 48 Hours 230 mg/L Pseudokirchneriella subcapitata (Green Alga) OECD EC50 72 hours 500 mg/L

### 12.2. Persistence and degradability

### Persistence and degradability

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

**BENZYL ALCOHOL** 

OECD Activated sludge Ready 92 % After 28 Day(s) Ready

### 12.3. Bioaccumulative potential

No information available. Bioaccumulation

12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
BENZYL ALCOHOL	Not PBT/vPvB
SODIUM CHLORIDE	Not PBT/vPvB PBT assessment does not apply

### 12.6. Endocrine disrupting properties

Based on available data, the classification criteria are not met. **Endocrine disrupting properties** 

12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

### Section 13: DISPOSAL CONSIDERATIONS

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### 13.1. Waste treatment methods

### Waste from residues/unused products

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 wastewater 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.

### Section 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.

UN number:
UN proper shipping name:
Not applicable

### Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water
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CERCLA/SARA Section 313 de minimus % Not Listed
California Proposition 65 Not Listed
TSCA Present
EINECS 231-791-2
AICS Present

Dalteparin Sodium (Heparin Sodium)

CERCLA/SARA Section 313 de minimus %
California Proposition 65
TSCA
EINECS
AICS
Standard for Uniform Scheduling of Medicines and
Not Listed
Present
Not Listed
Present
Schedule 4

Poisons (SUSMP)

BENZYL ALCOHOL

CERCLA/SARA Section 313 de minimus % Not Listed
California Proposition 65
TSCA Present
EINECS 202-859-9
AICS Present

SODIUM CHLORIDE

CERCLA/SARA Section 313 de minimus % Not Listed
California Proposition 65 Not Listed
TSCA Present

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**EINECS** 231-598-3 **AICS** Present

### National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
BENZYL ALCOHOL	RG 84
100-51-6	
SODIUM CHLORIDE	RG 78
7647-14-5	

### Germany

Chemical Prohibition Ordinance (ChemVerbotsV)

Not applicable

**TRGS 905** Not applicable

### Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable **Storage of Hazardous Material** Not applicable WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Not applicable Major Accidents Ordinance SR 814.012 Not applicable

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

		- //
Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
BENZYL ALCOHOL	75	-
100-51-6		

### **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable.

FU - Plant Protection Products (1107/2009/FC)

LO - Flant Flotection Floducts (1107/2003/LC)	
Chemical name	EU - Plant Protection Products (1107/2009/EC)
SODIUM CHLORIDE 7647-14-5	Plant protection agent

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
SODIUM CHLORIDE	Product-type 1: Human hygiene
7647-14-5	

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### **Explosives Precursors Marketing and Use (2019/1148)**

Not applicable

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

### Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H302 - Harmful if swallowed H332 - Harmful if inhaled H317 - May cause an allergic skin reaction

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

**Reason for revision** Updated Section 2 - Hazard Identification. Updated Section 16 - Other Information.

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Prepared By Pfizer Global Environment, Health, and Safety

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 time.