



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

#### 1.1. Product identifier

Product Name Milrinone Lactate Injection (Hospira Inc.)

Product Code(s) PZ03115

Trade Name: Milrinone Lactate Injection, USP

Chemical Family: Not determined

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

**Recommended Use** Pharmaceutical product used as cardiovascular drug

#### 1.3. 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

Pfizer Ireland Pharmaceuticals

**OSG** Building

Ringaskiddy, Co. Cork.

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: Not classified as hazardous.

#### **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

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

2.3. Other hazards

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

(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.

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

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.

DEACH FOND /FIL Closeification Chapting M. Foster M. Foster

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chamical name

**Substances** Not applicable

Moight %

3.2 Mixtures

Hazardous

Chemical name	vveight-%	REACH registration number	Index No)	classification according to Regulation (EC) No. 1272/2008 [CLP]	concentration limit (SCL)	M-Factor	M-Factor (long-term)
Lactic acid (CAS #: 50-21-5)	**		200-018-0	Eye Dam. 1 (H318) Skin Irrit. 2 (H315)	Not classified	No data available	No data available
Sodium hydroxide (CAS #: 1310-73-2)	< 0.1	-	215-185-5 (011-002-00-6)	Skin Corr.1A	Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	No data available	No data available
Milrinone Lactate (CAS #: 100286-97-3)	0.1		Not Listed	Acute Tox 3 (H301) STOT RE 1 (H370)	Not classified	No data available	No data available
Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)

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Water	*	-	231-791-2	Not classified	Not classified	No data	No data
(CAS #: 7732-18-5)						available	available
Dextrose	*		Not Listed	Not classified	Not classified	No data	No data
(CAS #:						available	available
14431-43-7)							

#### 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
Lactic acid 50-21-5	3543	2000	7.94	No data available	No data available
Sodium hydroxide 1310-73-2	325	1350	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**

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.

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.

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

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

Identification and/or Section 11 - Toxicological Information. effects

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

Note to physicians None.

<sup>\*</sup> Proprietary

<sup>\*\*</sup> to adjust pH

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## 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

**Hazardous combustion products** 

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

chemical

Formation of toxic gases is possible during heating or fire. May include oxides of carbon.

**Explosion data** 

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

#### 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

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

Section 8). Minimize exposure.

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 dust/fume/gas/mist/vapors/spray. 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.

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7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific use(s) Pharmaceutical drug product.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Exposure Limits** 

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

**Milrinone Lactate** 

Pfizer OEL TWA-8 Hr: 20 µg/m<sup>3</sup>

Sodium hydroxide

ACGIH OEL (Ceiling) 2 mg/m<sup>3</sup> Ceiling: 2 mg/m<sup>3</sup> **ACGIH TLV** 

TWA-TMW: 2 mg/m<sup>3</sup>; inhalable fraction Austria

STEL-KZGW: 4 mg/m³ (8 X 5 min); inhalable fraction

TWA: 2.0 mg/m³; alkaline aerosols Bulgaria

Czech Republic 1 mg/m<sup>3</sup>

Ceiling: 2 mg/m3 Denmark Ceiling: 2 mg/m3; Estonia TWA: 1 mg/m3: STEL: 2 mg/m3; Finland Ceiling: 2 mg/m<sup>3</sup>;

2 mg/m<sup>3</sup> France

TWA-AK: 1 mg/m3; Hungary STEL-CK: 2 mg/m3;

Ireland STEL: 2 mg/m<sup>3</sup>; 2 mg/m<sup>3</sup>

Ceiling Limit Value Latvia TWA: 0.5 mg/m<sup>3</sup>; Poland TWA-NDS: 0.5 mg/m<sup>3</sup>; STEL-NDSCh: 1 mg/m3;

Romania TWA: 1 mg/m<sup>3</sup>;

STEL: 3 mg/m3; Slovakia TWA: 2 mg/m3;

Spain STEL (VLA-EC): 2 mg/m3;

Switzerland TWA-MAK: 2 mg/m3; inhalable dust STEL-KZGW: 2 mg/m3; inhalable dust

**OSHA PEL** TWA: 2 mg/m<sup>3</sup>

(vacated) Ceiling: 2 mg/m<sup>3</sup>

United Kingdom STEL: 2 mg/m<sup>3</sup>;

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

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Personal protective equipment

airborne contamination levels below the exposure limits listed above in this section. 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. Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

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 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

Physical state Liquid

ColorColorless to pale-yellowOdorNo information available.Odor thresholdNo 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
No data available
No data available
No data available
Autoignition temperature
No data available

Decomposition temperature

SADT (°C) No data available

**H** 3.2-4.0

pH (as aqueous solution)

Kinematic viscosity

Dynamic viscosity

No data available

No data available

Solubility No data available Soluble

Vapor pressureNo data availableDensity and/or relative densityNo data availableBulk densityNo data available

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**Liquid Density** No data available Vapor density No data available

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

9.2. Other information

Molecular formula Mixture Molecular weight Mixture

9.2.1. Information with regard to physical hazard classes

**Oxidizing properties** None

9.2.2. Other safety characteristics

No information available

## Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No information available. Reactivity

10.2. Chemical stability Stable under normal conditions. Stability

**Explosion data** 

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information available.

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 None known.

## Section 11: TOXICOLOGICAL INFORMATION

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

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

ingredients.

Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on heart

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

nausea, vomiting, chest pain, decrease in blood pressure (hypotension), ventricular

arrhythmia, hypocalcemia, tremors, thrombocytopenia.

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

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Reproductive toxicity

Germ cell mutagenicity

Carcinogenicity

Aspiration hazard

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

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

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

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

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

Lactic acid

Rat Oral LD50 3543 mg/kg

Rabbit Dermal LD50 > 2000 mg/kg

Milrinone Lactate

Rat Oral LD50 91 mg/kg Mouse Oral LD50 137 mg/kg Rabbit Oral LD50 40 mg/kg Rat Intravenous LD50 73 mg/kg

Sodium hydroxide

Mouse IP LD50 40 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Water	> 90 mL/kg (Rat)	-	-	
Lactic acid	= 3543 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	> 7.94 mg/L (Rat)4 h	
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg ( Rabbit )	-	

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

Lactic acid

Eye Irritation Rabbit Severe

Skin Irritation Rabbit Moderate Severe

Sodium hydroxide

Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe

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

#### **Milrinone Lactate**

1 Month(s) Rat Intravenous 2.5 mg/kg/day LOAEL Heart

1 Month(s) Rat Intravenous 2.5 mg/kg/day NOAEL No effects at maximum dose

1 Month(s) Dog Intravenous 0.4 mg/kg/day NOAEL No effects at maximum dose

3 Month(s) Rat Oral 2 mg/kg/day LOAEL Heart

3 Month(s) Monkey Oral 1 mg/kg/day NOAEL Heart

3 Month(s) Dog Oral 0.4 mg/kg/day LOAEL Heart

6 Month(s) Dog Oral 0.2 mg/kg/day NOAEL Heart

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

#### Lactic acid

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

Milrinone Lactate

Reproductive & Fertility Rat Oral 32 mg/kg/day NOAEL No effects at maximum dose

Embryo / Fetal Development Rat Oral 40 mg/kg/day NOAEL Not Teratogenic

Embryo / Fetal Development Rabbit Oral 12 mg/kg/day NOAEL Not Teratogenic

Embryo / Fetal Development Rat Intravenous 3 mg/kg/day NOAEL Not Teratogenic

Embryo / Fetal Development Rabbit Intravenous 8 mg/kg/day LOAEL Fetotoxicity

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

Milrinone Lactate

Chromosome Aberration Chinese Hamster Ovary (CHO) cells Positive with activation

Bacterial Mutagenicity (Ames) Negative

Micronucleus Mouse Negative

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Mammalian Cell Mutagenicity Mouse Lymphoma Negative In Vivo Bone Marrow Metaphase Analysis Rat Negative

#### Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

#### Milrinone Lactate

24 Month(s) Mouse Oral 40 mg/kg/day NOAEL Not carcinogenic

24 Month(s) Rat Oral 5 mg/kg/day NOAEL Not carcinogenic

20 Month(s) Female Rat Oral 25 mg/kg/day NOAEL Not carcinogenic

18 Month(s) Male Rat Oral 25 mg/kg/day NOAEL Not carcinogenic

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

**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.

12.1. Toxicity

#### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

No information available. **Bioaccumulation** 

12.4. Mobility in soil

No information available. Mobility in soil

#### 12.5. Results of PBT and vPvB assessment

## PBT and vPvB assessment

Chemical name	PBT and vPvB assessment	
Lactic acid	Not PBT/vPvB	
Sodium hydroxide	Not PBT/vPvB PBT assessment does not apply	

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** Based on available data, the classification criteria are not met. Product Name Milrinone Lactate Injection (Hospira Inc.)

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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

#### 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.

Not applicable **UN** proper shipping name: Not applicable Transport hazard class(es): Not applicable Not applicable Packing group: Not applicable **Environmental Hazard(s):** 

## Section 15: REGULATORY INFORMATION

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

Water

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

**Dextrose** 

CERCLA/SARA Section 313 de minimus % Not Listed **California Proposition 65** Not Listed **EINECS** Not Listed Present **AICS** 

Lactic acid

CERCLA/SARA Section 313 de minimus % Not Listed California Proposition 65 Not Listed **TSCA** Present **EINECS** 200-018-0

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**AICS** Present

Sodium hydroxide

CERCLA/SARA Section 313 de minimus % Not Listed 1000 lb **Hazardous Substances RQs California Proposition 65** Not Listed Present **TSCA EINECS** 215-185-5 **AICS** Present Schedule 5 Standard for Uniform Scheduling of Medicines and

Poisons (SUSMP)

Milrinone Lactate

CERCLA/SARA Section 313 de minimus % Not Listed **California Proposition 65** Not Listed Not Listed **EINECS** 

#### National regulations

#### 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 contains one or more substance(s) 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	
Sodium hydroxide	75	-	
1310-73-2			

## **Persistent Organic Pollutants**

Not applicable

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

Not applicable.

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)		
Lactic acid	Simplified procedure - Category 1		
50-21-5			

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

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#### 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

H301 - Toxic if swallowed. H314 - Causes severe skin burns and eye damage. H315 - Causes skin irritation. H318 - Causes serious eye damage. H370 - Causes damage to organs.

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

Reason for revision Updated Section 1 - Identification of the Substance/Preparation and the

Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 3 -Composition / Information on Ingredients. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 15 - Regulatory Information. Updated Section 16 - Other

Information.

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Pfizer Global Environment, Health, and Safety **Prepared By** 

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.