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

### 1.1. Product identifier

Product Name Dextran in Dextrose Injection (Hospira, Inc.)

Product Code(s) PZ03174

Trade Name: LMD in Dextrose Injection

Chemical Family: Not determined

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

Recommended Use Pharmaceutical product

### 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 according to Regulation (EC) 1272/2008 and/or other applicable regulations.

2.2. Label elements

Signal word Not Classified

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

Supplemental Hazard Compound, not fully tested, additional hazards may exist.

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).

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.

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# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substances Not applicable

### 3.2 Mixtures

Hazardous

Sodium hydroxide (CAS #: 1310-73-2)  **  - 215-185-5	Chemical name	M-Factor (long-term)
- Z31-595-7 Actite 10x. 3 Eye IIII. 2 No data (CAS #: 7647-01-0) Skin Corr. 1A Skin Corr. 1B :: (H314) C>=25% Skin Irrit. 2 :: 10%<=C<25% STOT SE 3 :: C>=10%	CAS #: 1310-73-2	No data available
		No data available
Chemical name   Weight-%   REACH   EC No   Classification   according to   concentration   Number   Regulation   limit (SCL)		M-Factor (long-term)

Chemical name	Weight-%	REACH Registration Number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Water (CAS #: 7732-18-5)	*	-	231-791-2	Not classified as hazardous	Not Listed	No data available	No data available
Dextran (CAS #: 9004-54-0)	10		232-677-5	Not classified as hazardous	Not Listed	No data available	No data available
Dextrose (CAS #: 14431-43-7)	5		Not Listed	Not classified as hazardous	Not Listed	No data available	No data available

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

**Acute Toxicity Estimate** 

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			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
Dextran 9004-54-0	3000	No data available	No data available	No data available	No data available
Sodium hydroxide 1310-73-2	325	1350	No data available	No data available	No data available
+ Hydrochloric Acid 7647-01-0	238	5010	No data available	No data available	563.3022

Additional information

- + Substance with a Union workplace exposure limit
- \* Proprietary
- \*\* to adjust pH

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. Non-hazardous ingredients provided for completeness. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

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# **Section 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

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

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

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

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

Note to physicians None.

# 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

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

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

5.3. Advice for firefighters

Special protective equipment 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.

Contain the source of the spill if it is safe to do so. Absorb spills with non-combustible Methods for cleaning up

absorbent material and transfer into a labeled container for disposal.

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

6.4. Reference to other sections

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

# Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

### Advice on 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.

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

# 7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific use(s) Pharmaceutical 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.

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Sodium hydroxide

ACGIH OEL (Ceiling) 2 mg/m³
ACGIH TLV Ceiling: 2 mg/m³

Austria Ceiling. 2 mg/m<sup>3</sup>

 $\begin{array}{ccc} & & \text{STEL 4 mg/m}^3 \\ \text{Bulgaria} & & 2.0 \text{ mg/m}^3 \\ \text{Czech Republic} & & 1 \text{ mg/m}^3 \end{array}$ 

Ceiling: 2 mg/m³
Denmark Ceiling: 2 mg/m³
Estonia 1 mg/m³

 Finland
 STEL: 2 mg/m³

 France
 2 mg/m³

 Hungary
 1 mg/m³

 STEL: 2 mg/m³

Ireland STEL: 2 mg/m³
Ceiling Limit Value 2 mg/m³

Latvia 0.5 mg/m³
Poland STEL: 1 mg/m³
0.5 mg/m³
0.5 mg/m³
1 mg/m³

 Slovakia
 2 mg/m³

 Spain
 STEL: 2 mg/m³

 Switzerland
 2 mg/m³

 STEL: 2 mg/m³
 STEL: 2 mg/m³

OSHA PEL 2 mg/m<sup>3</sup>

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

United Kingdom STEL: 2 mg/m³ + Hydrochloric Acid

ACGIH OEL (Ceiling) 2 ppm

ACGIH TLV Ceiling: 2 ppm
Austria 5 ppm

8 mg/m³
STEL 10 ppm
STEL 15 mg/m³
Bulgaria
STEL: 10 ppm

STEL: 15.0 mg/m<sup>3</sup> 5 ppm

8.0 mg/m³
Czech Republic 8 mg/m³
Coiling: 15

Ceiling: 15 mg/m<sup>3</sup>

 Estonia
 5 ppm

 8 mg/m³
 STEL: 10 ppm

 STEL: 15 mg/m³
 TWA: 5 ppm

 TWA: 8 mg/m³
 TWA: 8 mg/m³

STEL: 10 ppm

STEL: 15 mg/m³

Finland

STEL: 5 ppm

STEL: 7.6 mg/m<sup>3</sup>

Germany 2 ppm 3.0 mg/m³

Ceiling / Peak: 4 ppm

Ceiling / Peak: 6 mg/m³
Germany 2 ppm

3 mg/m³ Hungary 8 mg/m³

STEL: 16 mg/m<sup>3</sup>

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Ireland 8 mg/m<sup>3</sup>

5 ppm

STEL: 10 ppm STEL: 15 mg/m<sup>3</sup> Page 6/12

Italy 5 ppm

8 mg/m<sup>3</sup> STEL: 10 ppm

STEL: 15 mg/m<sup>3</sup> Ceiling Limit Value

2 ppm 3.0 mg/m<sup>3</sup> 5 ppm

8 mg/m<sup>3</sup> STEL: 10 ppm STEL: 15 mg/m<sup>3</sup>

Netherlands 8 mg/m<sup>3</sup>

STEL: 15 mg/m<sup>3</sup> Poland

STEL: 10 mg/m<sup>3</sup>

5 mg/m<sup>3</sup> Romania

5 ppm 8 mg/m<sup>3</sup> STEL: 10 ppm STEL: 15 mg/m<sup>3</sup> MAC: 5 mg/m<sup>3</sup> 5 ppm

Slovakia 8.0 mg/m<sup>3</sup> 5 ppm Spain 7.6 mg/m<sup>3</sup>

STEL: 10 ppm STEL: 15 mg/m<sup>3</sup>

Switzerland 2 ppm 3 mg/m<sup>3</sup>

STEL: 4 ppm STEL: 6 mg/m3

U.S. - OSHA - Final PELs - Ceiling Limits 5 ppm 7 mg/m<sup>3</sup>

> (vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m<sup>3</sup>

Ceiling: 5 ppm

Ceiling: 7 mg/m<sup>3</sup> United Kingdom TWA: 1 ppm

TWA: 2 mg/m<sup>3</sup> STEL: 5 ppm STEL: 8 mg/m<sup>3</sup>

8.2. Exposure controls

**OSHA PEL** 

Latvia

Russia

**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.

**Environmental exposure controls** No information available.

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.

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.).

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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

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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.)

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

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state Liquid solution

ColorNo information availableOdorNo information available.Odor thresholdNo information available.

Molecular formula Mixture
Molecular weight Mixture

 Property
 Values

 pH
 3.5-7.0

Melting point / freezing point No data available

Boiling point / boiling range

Flash point No information available

Evaporation rate

No data available

No data available

Flammability (solid, gas)

No data available
Flammability Limit in Air

Upper flammability limit: No data available

Lower flammability limit: No data available

Vapor pressure No data available No data available Vapor density No data available Relative density Water solubility No data available Solubility(ies) No data available Partition coefficient No data available **Autoignition temperature** No data available **Decomposition temperature** No data available Kinematic viscosity No data available

Dynamic viscosity
No data available
Particle characteristics

Particle SizeNo information availableParticle Size DistributionNo information availableExplosive propertiesNo information available

### 9.2. Other information

No information available

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#### 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 data available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

**Sensitivity to Mechanical Impact** No data available. **Sensitivity to Static Discharge** No data 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 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

**Known Clinical Effects:** Serious allergic reactions, including anaphylaxis, have been reported.

Acute toxicity

Serious eye damage/eye irritation
Skin corrosion/irritation
Respiratory or skin sensitization
STOT - single exposure
STOT - repeated exposure
STOT - repeated exposure
Reproductive toxicity

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

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

Dextran

Rat Oral LD50 > 3000 mg/kg

Sodium hydroxide

Mouse IP LD50 40 mg/kg

woodo ii Lboo io iiig/kg			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Dextran	> 3 g/kg (Rat)	-	-
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg ( Rabbit )	-
+ Hydrochloric Acid	238 - 277 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	= 1.68 mg/L ( Rat ) 1 h

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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)

+ Hydrochloric Acid
Skin irritation Severe
Eye irritation Severe
Sodium hydroxide

Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe

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

+ Hydrochloric Acid

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vivo Micronucleus Rat Negative

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

OSHA.

+ Hydrochloric Acid

IARC Group 3 (Not Classifiable)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

Section 12: ECOLOGICAL INFORMATION

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

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

12.1. Toxicity

No information available

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

Mobility in soil No information available.

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### 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Sodium hydroxide	The substance is not PBT / vPvB PBT assessment does
	not apply
+ Hydrochloric Acid	The substance is not PBT / vPvB PBT assessment does
	not apply

### 12.6. Endocrine disrupting properties

No information available. **Endocrine disrupting properties** 

### 12.7. Other adverse effects

No information available.

# Section 13: DISPOSAL CONSIDERATIONS

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

Not applicable Special precautions for user:

# 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

Dextran

CERCLA/SARA Section 313 de minimus % Not Listed

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**California Proposition 65** Not Listed **TSCA** Present **EINECS** 232-677-5 **AICS** Present Dextrose CERCLA/SARA Section 313 de minimus % Not Listed **California Proposition 65** Not Listed **EINECS** Not Listed **AICS** Present Sodium hydroxide CERCLA/SARA Section 313 de minimus % Not Listed 1000 lb **Hazardous Substances RQs** California Proposition 65 Not Listed **TSCA** Present **EINECS** 215-185-5 **AICS** Present Standard for Uniform Scheduling of Medicines and Schedule 5 Poisons (SUSMP) Schedule 6 + Hydrochloric Acid CERCLA/SARA Section 313 de minimus % 1.0 % **Hazardous Substances RQs** 5000 lb **California Proposition 65** Not Listed **TSCA** Present **EINECS** 231-595-7 **AICS** 

# **European Union**

Poisons (SUSMP)

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

Present Schedule 5

Schedule 6

#### 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 - 1310-73-2	Use restricted. See item 75.	
+ Hydrochloric Acid - 7647-01-0	Use restricted. See item 75.	

### **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Standard for Uniform Scheduling of Medicines and

Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
+ Hydrochloric Acid - 7647-01-0	25	250

### **EU - Biocides**

Chemical name	EU - Biocides
+ Hydrochloric Acid - 7647-01-0	Product-type 2: Disinfectants and algaecides not intended
	for direct application to humans or animals

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

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

AICS - Australian Inventory of Chemical Substances

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 H-Statements referred to under section 3

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; H373 - May cause damage to organs through prolonged or repeated exposure.

**Data Sources:** Safety data sheets for individual ingredients. 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 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 15 - Regulatory Information.

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Prepared By Pfizer Global Environment, Health, and Safety

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