This SDS packet was issued with item:

078888176

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078009796 078878862



(M)SDS Overview

Use the search box at the top right of the site to search for safety data sheets (SDS). To locate the SDS for a specific product, enter part of the product name, filter the search using the check boxes, then click on the magnifying glass.

US OSHA—HAZARD COMMUNICATION—CHANGE TO SAFETY DATA SHEETS

The Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard (29CFR1910.1200) requires manufacturers to prepare Safety Data Sheets for chemical products that are considered "hazardous" according to the regulation. For a chemical or formulation to be hazardous under OSHA's Hazard Communication Standard, it must present either a physical hazard or health hazard.

On June 1, 2015 OSHA's revised Hazard Communication Standard became effective. The Hazard Communication Standard now requires chemical manufacturers, distributors, or importers to provide new Safety Data Sheets, formerly known as Material Safety Data Sheets (MSDS), in a revised uniform format that includes standardized section numbers and headings.

All Hospira products which require a Safety Data Sheet under the regulation have been revised and updated to the new SDS format. For the purposes of hazard communication, the term MSDS and SDS are used interchangeably on our product catalog during this transition period.

PRODUCTS NOT REQUIRING SAFETY DATA SHEET

The list below identifies those Hospira products that do not meet OSHA's "hazardous" chemical classification. Safety data sheets have not been prepared for the products listed below.

4 Trace Elements Injection Acetic Acid Irrigation

Aminosyn™ (An Amino Acid Injection) Aminosyn™ in Dextrose Injection

Ascorbic Acid Injection
Balanced Salt Solution
Calcium Gluconate Injection
Cupric Chloride Injection
Dextran in Dextrose Injection

Dextran in Sodium Chloride Injection
Dextrose and Lactated Ringer's Injection

Dextrose and Ringer's Injection

Dextrose and Sodium Chloride Injection

Elliott's Solution A Glycine Irrigation

Hetastarch in Sodium Chloride Injection

Hextend™ - 6% Hetastarch in Lactated Electrolyte Injection Sodium Lactate Injection

Ionosol™ and Dextrose Injection
Lactated Ringer's Injection
Lactated Ringer's Irrigation
Liposyn™ (I.V. Fat Emulsion)
LMD in Dextrose Injection
LMD in Sodium Chloride Injection

Manganese Chloride Injection

Mannitol Injection
Medical Devices
Normosol™ Injection
Physiosol™ Irrigation

Potassium Acetate Injection

Potassium Chloride in Dextrose and Sodium Chloride Injection

Potassium Chloride in Dextrose Injection

Potassium Chloride in Lactated

Potassium Chloride in Sodium Chloride Injection

Potassium Chloride Injection Ringer's and Dextrose Injection

Ringer's Injection
Ringer's Irrigation
Sodium Acetate Injection
Sodium Chloride Injection
Sodium Chloride Irrigation
Sodium Lactate Injection
Sodium Phosphates Injection
Sorbitol-Mannitol Irrigation
Sterile Water for Injection
Sterile Water for Irrigation

Theophylline in Dextrose Injection
Voluven 6% Hydroxyethyl Starch Solution

Zinc Chloride Injection

Disclaimer:

The information contained in these data sheets is based on the data available to Hospira as of the posting on this web site of this information, and is believed to be accurate based upon that data as of such time. This information is provided independently of any sale of the products, for purpose of hazard communication. It is not intended to constitute product performance information, and no express or implied warranty of any kind is made with respect to the product, underlying data or the information contained herein.

LEGAL NOTICE

PRIVACY POLICY

COMPLIANCE

TERMS + CONDITIONS

This website and its information is intended for use by United States residents only. Regulatory requirements, data requirements or medical practices may differ between countries. Therefore, information on this site may be inappropriate for use outside of the United States. Site contents are intended for informational purposes only and not intended to replace discussion with a healthcare provider. If you have any questions regarding this site, contact Hospira.





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IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Hetastarch in Sodium Chloride Injection (Hospira, Inc.)

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

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

Intended Use: Pharmaceutical product

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

Contact E-Mail:

CHEMTREC (24 hours): 1-800-424-9300 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

Material Name: Hetastarch in Sodium Chloride Injection Page 2 of 8

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3. COMPOSITION / INFORMATION ON INGREDIENTS				
Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Sodium chloride	7647-14-5	231-598-3	Not Listed	0.9
Sodium hydroxide	1310-73-2	215-185-5	Skin Corr.1A (H314)	**

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Hydroxyethyl starch	9005-27-0	Not Listed	Not Listed	6
Water for Injection	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

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:

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

Advice for Fire-Fighters

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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 / Collecting:

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

absorbent material and transfer into a labeled container for disposal.

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

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

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

Sodium chloride

Latvia OEL - TWA 5 mg/m³
Lithuania OEL - TWA 5 mg/m³

Sodium hydroxide

ACGIH Ceiling Threshold Limit: 2 mg/m³ **Australia PEAK** 2 mg/m³ 2 mg/m³ Austria OEL - MAKs **Bulgaria OEL - TWA** 2.0 mg/m³ Czech Republic OEL - TWA 1 mg/m^3 **Estonia OEL - TWA** 1 mg/m^3 France OEL - TWA 2 mg/m^3 **Greece OEL - TWA** 2 mg/m³ 2 mg/m³ **Hungary OEL - TWA** Japan - OELs - Ceilings 2 mg/m³ 0.5 mg/m³ Latvia OEL - TWA 2 mg/m³ **OSHA - Final PELS - TWAs: Poland OEL - TWA** 0.5 mg/m³ Slovakia OEL - TWA 2 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Slovenia OEL - TWA 2 mg/m³ Sweden OEL - TWAs 1 mg/m³ **Switzerland OEL -TWAs** 2 mg/m³

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

Band (OEB):

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

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 **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.)

Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the Eves:

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

Skin: 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.)

Under normal conditions of use, if the applicable Occupational Exposure Limit (OEL) is Respiratory protection:

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.)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid solution Color: No data available. No data available. Odor: **Odor Threshold:** No data available.

Molecular Formula: Mixture **Molecular Weight:** Mixture

Solvent Solubility: No data available Water Solubility: No data available

pH: 3.5-7.0

Melting/Freezing Point (°C): No data available **Boiling Point (°C):** No data available. Partition Coefficient: (Method, pH, Endpoint, Value)

Sodium hydroxide No data available Water for Injection No data available

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9. PHYSICAL AND CHEMICAL PROPERTIES

Hydroxyethyl starch
No data available
Sodium chloride
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:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

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. Adverse effects

associated with therapeutic use include effects on cardiovascular system, blood clotting irregularities, bleeding, decreased red blood cell count (anemia), vomiting, headache, flu-like

syndrome, swelling, muscle pain.

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

Sodium hydroxide

Mouse IP LD50 40 mg/kg

Hydroxyethyl starch

Rat Oral LD50 > 50 g/kg

Sodium chloride

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

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11. TOXICOLOGICAL INFORMATION

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)

Sodium hydroxide

Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe

Sodium chloride

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

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

Hydroxyethyl starch

Embryo / Fetal Development Mouse Intravenous60 mL/kg NOAEL Not teratogenic Embryo / Fetal Development Rabbit Intravenous 75 mL/kg NOAEL Not Teratogenic Embryo / Fetal Development Mouse Rat Intraperitoneal 50 g/kg NOAEL Not Teratogenic

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.

Toxicity: No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

PZ03176

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

releases. This may include destructive techniques for waste and wastewater.

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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

Hydroxyethyl starch

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	Not Listed

Sodium chloride

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	231-598-3

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

Water for Injection

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the	Present
obligations of Register:	
EU EINECS/ELINCS List	231-791-2

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(Hospira, Inc.)

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16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage

Data Sources: Safety data sheets for individual ingredients. Publicly available toxicity information.

Reasons for Revision: Updated Section 8 - Exposure Controls / Personal Protection.

Revision date: 07-Dec-2016

Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

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