

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078009481

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

078009416 078009424 078009473 078009721 078009739 078009788

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

078836734 078836742 078836759 078836767 078836775 078836783 078836791 078836809



## (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	Mannitol Injection
Acetic Acid Irrigation	Medical Devices
Aminosyn™ (An Amino Acid Injection)	Normosol™ Injection
Aminosyn™ in Dextrose Injection	Physiosol™ Irrigation
Ascorbic Acid Injection	Potassium Acetate Injection
Balanced Salt Solution	Potassium Chloride in Dextrose and Sodium Chloride Injection
Calcium Gluconate Injection	Potassium Chloride in Dextrose Injection
Cupric Chloride Injection	Potassium Chloride in Lactated
Dextran in Dextrose Injection	Potassium Chloride in Sodium Chloride Injection
Dextran in Sodium Chloride Injection	Potassium Chloride Injection
Dextrose and Lactated Ringer's Injection	Ringer's and Dextrose Injection
Dextrose and Ringer's Injection	Ringer's Injection
Dextrose and Sodium Chloride Injection	Ringer's Irrigation
Elliott's Solution A	Sodium Acetate Injection
Glycine Irrigation	Sodium Chloride Injection
Hetastarch in Sodium Chloride Injection	Sodium Chloride Irrigation
Hextend™ - 6% Hetastarch in Lactated Electrolyte Injection	Sodium Lactate Injection
Ionosol™ and Dextrose Injection	Sodium Phosphates Injection
Lactated Ringer's Injection	Sorbitol-Mannitol Irrigation
Lactated Ringer's Irrigation	Sterile Water for Injection
Liposyn™ (I.V. Fat Emulsion)	Sterile Water for Irrigation
LMD in Dextrose Injection	Theophylline in Dextrose Injection
LMD in Sodium Chloride Injection	Voluven 6% Hydroxyethyl Starch Solution
Manganese Chloride Injection	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](#)

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09/15/2016



# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

### Product Identifier

**Material Name:** Sodium Chloride Irrigation (Hospira, Inc.)

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

**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  
1-800-879-3477

Hospira UK Limited

Horizon

Honey Lane

Hurley

Maidenhead, SL6 6RJ

United Kingdom

**Emergency telephone number:**  
**CHEMTREC (24 hours):** 1-800-424-9300

**Contact E-Mail:** pfizer-MSDS@pfizer.com

**Emergency telephone number:**

**International CHEMTREC (24 hours):** +1-703-527-3887

## 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).

### Note:

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

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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	0.45-0.9
SODIUM HYDROXIDE	1310-73-2	215-185-5	Skin Corr. 1A (H314)	**
HYDROCHLORIC ACID	7647-01-0	231-595-7	Skin Corr.1B (H314) STOT SE 3 (H335)	**

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Water for injection	7732-18-5	231-791-2	Not Listed	*

**Additional Information:**

\*\* 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:** Due to the nature of this material first aid is not normally required.

**Skin Contact:** Due to the nature of this material first aid is not normally required.

**Ingestion:** Due to the nature of this material first aid is not normally required.

**Inhalation:** Not an expected route of exposure.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Symptoms and Effects of Exposure:** No data available

**Medical Conditions Aggravated by Exposure:** None known

**Indication of the Immediate Medical Attention and Special Treatment Needed**

**Notes to Physician:** None

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** As for primary cause of fire.

**Special Hazards Arising from the Substance or Mixture**

**Hazardous Combustion Products:** Not applicable

**Fire / Explosion Hazards:** Not applicable

**Advice for Fire-Fighters**

Not applicable

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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Not applicable

#### Environmental Precautions

None

#### Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting: Wipe up with a damp cloth and place in container for disposal.

Additional Consideration for Large Spills: None

### 7. HANDLING AND STORAGE

#### Precautions for Safe Handling

No special handling requirements for normal use of this material.

#### Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Incompatible Materials: None

Specific end use(s): No data available

### 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/m<sup>3</sup>

Lithuania OEL - TWA 5 mg/m<sup>3</sup>

#### SODIUM HYDROXIDE

ACGIH Ceiling Threshold Limit: 2 mg/m<sup>3</sup>

Australia PEAK 2 mg/m<sup>3</sup>

Austria OEL - MAKs 2 mg/m<sup>3</sup>

Bulgaria OEL - TWA 2.0 mg/m<sup>3</sup>

Czech Republic OEL - TWA 1 mg/m<sup>3</sup>

Estonia OEL - TWA 1 mg/m<sup>3</sup>

France OEL - TWA 2 mg/m<sup>3</sup>

Greece OEL - TWA 2 mg/m<sup>3</sup>

Hungary OEL - TWA 2 mg/m<sup>3</sup>

Japan - OELs - Ceilings 2 mg/m<sup>3</sup>

Latvia OEL - TWA 0.5 mg/m<sup>3</sup>

OSHA - Final PELs - TWAs: 2 mg/m<sup>3</sup>

Poland OEL - TWA 0.5 mg/m<sup>3</sup>

Slovakia OEL - TWA 2 mg/m<sup>3</sup>

Slovenia OEL - TWA 2 mg/m<sup>3</sup>

Sweden OEL - TWAs 1 mg/m<sup>3</sup>

Switzerland OEL - TWAs 2 mg/m<sup>3</sup>

#### HYDROCHLORIC ACID

ACGIH Ceiling Threshold Limit: 2 ppm

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Australia PEAK	5 ppm 7.5 mg/m <sup>3</sup>
Austria OEL - MAKs	5 ppm 8 mg/m <sup>3</sup>
Belgium OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Bulgaria OEL - TWA	5 ppm 8.0 mg/m <sup>3</sup>
Cyprus OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Czech Republic OEL - TWA	8 mg/m <sup>3</sup>
Estonia OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Germany - TRGS 900 - TWAs	2 ppm 3 mg/m <sup>3</sup>
Germany (DFG) - MAK	2 ppm 3.0 mg/m <sup>3</sup>
Greece OEL - TWA	5 ppm 7 mg/m <sup>3</sup>
Hungary OEL - TWA	8 mg/m <sup>3</sup>
Ireland OEL - TWAs	5 ppm 8 mg/m <sup>3</sup>
Italy OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Japan - OELs - Ceilings	2 ppm 3.0 mg/m <sup>3</sup>
Latvia OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Lithuania OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Luxembourg OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Malta OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Netherlands OEL - TWA	8 mg/m <sup>3</sup>
Poland OEL - TWA	5 mg/m <sup>3</sup>
Portugal OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Romania OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Slovakia OEL - TWA	5 ppm 8.0 mg/m <sup>3</sup>
Slovenia OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Spain OEL - TWA	5 ppm 7.6 mg/m <sup>3</sup>
Switzerland OEL - TWAs	2 ppm 3.0 mg/m <sup>3</sup>
Vietnam OEL - TWAs	5 mg/m <sup>3</sup>

#### Exposure Controls

**Engineering Controls:**  
**Personal Protective Equipment:**

Engineering controls should be used as the primary means to control exposures. Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Hands:</b>	Not required for the normal use of this product.
<b>Eyes:</b>	Not required under normal conditions of use.
<b>Skin:</b>	Not required for the normal use of this product.
<b>Respiratory protection:</b>	None required under normal conditions of use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Color:</b>	Colorless
<b>Odor:</b>	None	<b>Odor Threshold:</b>	No data available.
<b>Molecular Formula:</b>	Mixture	<b>Molecular Weight:</b>	Mixture

<b>Solvent Solubility:</b>	No data available
<b>Water Solubility:</b>	No data available
<b>pH:</b>	4.5-7.0
<b>Melting/Freezing Point (°C):</b>	No data available
<b>Boiling Point (°C):</b>	No data available.

**Partition Coefficient: (Method, pH, Endpoint, Value)**

**SODIUM HYDROXIDE**

No data available

**SODIUM CHLORIDE**

No data available

**Water for injection**

No data available

**HYDROCHLORIC ACID**

No data available

<b>Decomposition Temperature (°C):</b>	No data available.
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<b>Evaporation Rate (Gram/s):</b>	No data available
<b>Vapor Pressure (kPa):</b>	No data available
<b>Vapor Density (g/ml):</b>	No data available
<b>Relative Density:</b>	No data available
<b>Viscosity:</b>	No data available

**Flammability:**

<b>Autoignition Temperature (Solid) (°C):</b>	No data available
<b>Flammability (Solids):</b>	No data available
<b>Flash Point (Liquid) (°C):</b>	No data available
<b>Upper Explosive Limits (Liquid) (% by Vol.):</b>	No data available
<b>Lower Explosive Limits (Liquid) (% by Vol.):</b>	No data available

### 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable
<b>Possibility of Hazardous Reactions</b>	
<b>Oxidizing Properties:</b>	No data available
<b>Conditions to Avoid:</b>	None
<b>Incompatible Materials:</b>	None
<b>Hazardous Decomposition Products:</b>	No data available

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### 11. TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

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

**Short Term:** Mild eye irritant in experimental animals (based on components)

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

##### SODIUM CHLORIDE

Rat Sub-tenon injection (eye) LC50/1hr > 42 g/m<sup>3</sup>  
Rat Oral LD 50 3g/kg  
Mouse Oral LD 50 4g/kg  
Rabbit Dermal LD 50 > 10g/kg

##### HYDROCHLORIC ACID

Rat Oral LD 50 238-277 mg/kg

**Acute Toxicity Comments:** A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

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

##### SODIUM CHLORIDE

Skin Irritation Rabbit Mild  
Eye Irritation Rabbit Mild

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

##### HYDROCHLORIC ACID

Bacterial Mutagenicity (Ames) *Salmonella* Negative  
*In Vivo* Micronucleus Rat Negative

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

##### HYDROCHLORIC ACID

**IARC:** Group 3 (Not Classifiable)

### 12. ECOLOGICAL INFORMATION

**Environmental Overview:** No harmful effects to aquatic organisms are expected.

**Toxicity:** No data available

**Persistence and Degradability:** No data available

**Bio-accumulative Potential:** No data available

**Mobility in Soil:** No data available



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### 13. DISPOSAL CONSIDERATIONS

**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.

### 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

#### 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

#### 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 obligations of Register:	Present
EU EINECS/ELINCS List	231-791-2

#### SODIUM HYDROXIDE

CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	1000 lb 454 kg
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Schedule 5 Schedule 6

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### 15. REGULATORY INFORMATION

EU EINECS/ELINCS List 215-185-5

#### HYDROCHLORIC ACID

CERCLA/SARA 313 Emission reporting	1.0 %
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	5000 lb
CERCLA/SARA - Section 302 Extremely Hazardous TPQs	2270 kg
CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs	500 lb
California Proposition 65	5000 lb
Inventory - United States TSCA - Sect. 8(b)	Not Listed
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Present
EU EINECS/ELINCS List	Schedule 5
	Schedule 6
	231-595-7

### 16. OTHER INFORMATION

#### Text of CLP/GHS Classification abbreviations mentioned in 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; H335 - May cause respiratory irritation

**Data Sources:** Publicly available toxicity information.

**Reasons for Revision:** Updated Section 3 - Composition / Information on Ingredients. Updated Section 11 - Toxicology Information.

**Revision date:** 25-Oct-2016

**Prepared by:** Product Stewardship Hazard Communication  
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**