# This SDS packet was issued with item:

078904771

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

078919233

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).

078904769



# MATERIAL SAFETY DATA SHEET

Product Name: Bacteriostatic Water 1.1% for Injection, USP

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Manufacturer Name And** 

Hospira Inc.

Address

275 North Field Drive Lake Forest, Illinois USA

60045

**Emergency Telephone** 

CHEMTREC: North America: 800-424-9300;

International 1-703-527-3887; Australia (02) 8014 4880

Hospira, Inc., Non-Emergency

224-212-2000

**Product Name** 

Bacteriostatic Water 1.1% for Injection, USP

Synonyms

NA

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient Name Benzyl Alcohol

Chemical Formula C<sub>7</sub>H<sub>8</sub>O

**Preparation** Non-hazardous ingredients include Water for Injection.

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Benzyl Alcohol	1.1	100-51-6	DN3150000

#### 3. HAZARD INFORMATION

Carcinogen List

Substance	IARC	NTP	OSHA
Benzyl Alcohol	Not Listed	Not Listed	Not Listed

**Emergency Overview** 

1.1% Bacteriostatic Water for Injection, USP is an aqueous solution containing benzyl alcohol. In the workplace, this material should be considered potentially irritating to the eyes and respiratory tract. Possible target organs include the central nervous system, gastrointestinal system, respiratory system, and eyes.

Occupational Exposure Potential

Information on the absorption of this product via inhalation or skin contact is not available.

Avoid liquid aerosol generation and skin contact.

Signs and Symptoms

None known from occupational exposure. Inhalation of product aerosols or inadvertent splashes to the eyes may produce irritation. In clinical use, concentrations of benzyl alcohol normally used for preservation are generally not associated with serious adverse effects in patients. However, over-exposure to benzyl alcohol by ingestion or inhalation may cause nausea, vomiting, diarrhea, headache, and vertigo. As with many alcohols, serious over-exposure may product central nervous system and respiratory depression.

**Medical Conditions** 

Pre-existing hypersensitivity to benzyl alcohol; pre-existing central nervous system,

# Product Name: Bacteriostatic Water 1.1% for Injection, USP



**Aggravated by Exposure** gastrointestinal system, respiratory system, or eye ailments.

## 4. FIRST AID MEASURES

**Eye contact** Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

**Skin contact** Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

**Inhalation** Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic/supportive care as necessary.

**Ingestion** Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic/supportive care as necessary.

## 5. FIRE FIGHTING MEASURES

**Flammability** None anticipated from this aqueous product. However, when heated, this

product may produce combustible vapors.

**Fire & Explosion Hazard** None anticipated for this aqueous product.

**Extinguishing media** As with any fire, use extinguishing media appropriate for primary cause of fire.

**Special Fire Fighting** 

Procedures

No special provisions required beyond normal fire fighting equipment such as flame and chemical resistant clothing and self contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup and Disposal Isolate area around spill. Put on suitable protective clothing and equipment as

specified by site spill procedures. Absorb the liquid with suitable material and clean affected area with soap and water. Dispose of spill materials according to

the applicable federal, state, or local regulations.

#### 7. HANDLING AND STORAGE

**Handling** No special handling required for hazard control under conditions of normal

product use.

Storage No special storage required for hazard control. For product protection, follow

storage recommendations noted on the product case label, the primary

container label, or the product insert.

**Special Precautions** No special precautions required for hazard control.



# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** 

		Exposure limits				
Component	Type	mg/m3	ppm	μg/m3	Note	
Benzyl Alcohol	AIHA WEEL	N/A	10	N/A	8-hr TWA	

Respiratory protection

Respiratory protection is normally not needed during intended product use. However, if the generation of aerosols is likely, and engineering controls are not considered adequate to control potential airborne exposures, the use of an approved air-purifying respirator with a HEPA cartridge (N95 or equivalent) and an organic vapor cartridge is recommended under conditions where airborne aerosol concentrations are not expected to be excessive. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions require respirator use. Personnel who wear respirators should be fit tested and approved for respirator use as required.

**Skin protection** If skin contact with the product formulation is likely, the use of latex or nitrile gloves is

recommended.

**Eye protection** Eye protection is normally not required during intended product use. However, if eye contact

is likely to occur, the use of chemical safety goggles (as a minimum) is recommended.

**Engineering Controls** Engineering controls are normally not needed during the normal use of this product.

# 9. PHYSICAL/CHEMICAL PROPERTIES

Appearance/Physical State Liquid

**Color** Clear, colorless

Odor NA
Odor Threshold: NA

pH: 4.5 - 7.0

Melting point/Freezing point: NA

Initial Boiling Point/Boiling Point

NA

Range:

Evaporation Rate: NA
Flammability (solid, gas): NA
Upper/Lower Flammability or NA

**Explosive Limits:** 

Vapor Pressure:

NA
Vapor Density:

NA
Specific Gravity:

NA
Solubility:

NA
Partition coefficient: n-octanol/water:

NA
Auto-ignition temperature:

NA
Decomposition temperature:

NA



# 10. STABILITY AND REACTIVITY

Not determined. Reactivity

**Chemical Stability** Stable under standard use and storage conditions.

**Hazardous Reactions** Not determined

Conditions to avoid Not determined

Not determined **Incompatibilities** 

**Hazardous decomposition** 

products

Not determined. During thermal decomposition, it may be possible to generate

irritating vapors and/or toxic fumes of carbon oxides (COx).

**Hazardous Polymerization** Not anticipated to occur with this product.

# 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

Not determined for the product formulation. Information for the ingredients is as follows:

Ingredient(s)	Percent	Test Type	Route of Administration	Value	Units	Species			
				1660, 1230	mg/kg	Rat			
Benzyl Alcohol	100	LD50	Oral	1360, 1580	mg/kg	Mouse			
Benzyi Alcohor	100 LD30	100   LD30	LD30	100 LD30	Olai	LD30 Olai	1040, 1940	mg/kg	Rabbit
				2500	mg/kg	Guinea Pig			
Benzyl Alcohol	100	LD50	Intravenous	53	mg/kg	Rat			
Belizyi Alcolloi	100	LD30	ilitiavellous	324	mg/kg	Mouse			
Benzyl Alcohol	100	LD50	Dermal	2000	mg/kg	Rabbit			
Benzyl Alcohol	100	LC50/8hr	Inhalation	>500	mg/m3	Rat, Mouse			
Delizyi Alcohol	100	LC30/6III	iiiiaiatioii	1000	ppm	Rat			

None anticipated from normal handling of this product. However, inadvertent **Aspiration Hazard** 

inhalation of product aerosol/vapors may produce irritation with coughing.

**Dermal Irritation/Corrosion** None anticipated from normal handling of this product. Pure benzyl alcohol

was considered moderately irritating in a skin irritation study in animals.

None anticipated from normal handling of this product. However, inadvertent **Ocular Irritation/Corrosion** 

contact of this product with eyes may produce irritation with redness and

tearing.

**Dermal or Respiratory** 

Sensitization

None anticipated from normal handling of this product. Rarely, systemic hypersensitivity reactions to benzyl alcohol have been reported during clinical use. In a skin patch study in volunteers exposed to 5 to 10 percent benzyl

alcohol in petrolatum for 24-48 hours, about 1 percent of the volunteers gave a

positive reaction.

**Reproductive Effects** In a short term in vivo bioassay, fifty pregnant CD-1 mice were given 750

mg/kg/day benzyl alcohol in water by gavage on days 6-13 of gestation, and were allowed to deliver. A decrease in birth weights and weight gain, but no

# Product Name: Bacteriostatic Water 1.1% for Injection, USP



malformations, were noted in the pups. Maternal toxicity (death, 19/50) was noted at this dosage.

**Mutagenicity** Benzyl alcohol was negative in the Ames Assay for mutagenicity. Further,

benzyl alcohol was generally negative or equivocal for genotoxicity in an additional battery of tests. However, benzyl alcohol was considered positive in the chromosome aberration test in Chinese hamster ovary (CHO) cells in the

presence of a metabolic activating system.

**Carcinogenicity** The results of 2 year gavage studies indicate that there was no evidence of

carcinogenic activity in male or female F344/N rats dosed with 200 or 400 mg/kg of benzyl alcohol. Similarly, there was no evidence of carcinogenic activity of benzyl alcohol in male or female B6C3F1 mice dosed with 100 or

200 mg/kg/day for 2 years.

**Target Organ Effects** During occupational use, possible target organs include the central nervous

system, gastrointestinal system, respiratory system, and eyes. In clinical use, pre-mature infants over-exposed to benzyl alcohol may exhibit a gasping

syndrome characterized by respiratory distress and apneic spells.

## 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity** Not determined for the product. Information for ingredients is provided below:

LC50(96 hr) = 460 mg/L in Pimephales promelas for benzyl alcohol LC50 = 640 mg/L in Leuciscus idus for benzyl alcohol EC50(24 hr) = 400 mg/L in Daphnia magna for benzyl alcohol EC50 = 95 mg/L in Chlorella pyrenoidosa

for benzyl alcohol

**Persistence/Biodegradability** Not determined for the product. Information for ingredients is provided below:

Benzyl alcohol was degraded over 90% in a 28-day biodegradation assay in

sewage sludge.

**Bioaccumulation** Not determined for product.

Mobility in Soil Not determined for product.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal All waste materials must be properly characterized. Further, disposal should be

performed in accordance with the federal, state or local regulatory

requirements.

**Container Handling and** 

Disposal

Dispose of container and unused contents in accordance with federal, state and

local regulations.

## 14. TRANSPORTATION INFORMATION

ADR/ADG/ DOT STATUS: Not regulated

IMDG STATUS: Not regulated

Product Name: Bacteriostatic Water 1.1% for Injection, USP

Hospira

ICAO/IATA STATUS: Not regulated

**Transport Comments:** None

## 15. REGULATORY INFORMATION

**USA Regulations** 

Substance	TSCA Status	CERCLA Status	SARA 302 Status	SARA 313 Status	PROP 65 Status
Benzyl Alcohol	Listed	Not Listed	Not Listed	Not Listed	Not Listed

RCRA Status Not Listed

U.S. OSHA Target Organ Toxin
Classification Possible Irritant

**GHS** \*In the EU, classification under GHS/CLP does not apply to certain substances and mixtures, such as

Classification medicinal products as defined in Directive 2001/83/EC, which are in the finished state, intended for the

final user.:

Hazard Class Not Applicable

Hazard Not Applicable Category

Signal Word Not Applicable

Symbol Not Applicable

**Prevention** P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

**Hazard** Not Applicable **Statement** 

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists, get medical attention. Wash hands after handling.

Get medical attention if you feel unwell.

#### **EU Classification\***

\*Medicinal products are exempt from the requirements of the EU Dangerous Preparations Directive. Information provided below is for the pure drug substance Benzyl Alcohol

Classification(s): Not Applicable

Symbol: Not Applicable

**Indication of Danger:** Not Applicable

**Risk Phrases:** Not Applicable

**Safety Phrases:** S23 - Do not breathe vapor.

S24/25 - Avoid contact with skin and eyes.

S37/39 - Wear suitable gloves and eye/face protection.



## 16. OTHER INFORMATION:

Notes:

ACGIH TLV American Conference of Governmental Industrial Hygienists – Threshold Limit Value

CAS Chemical Abstracts Service Number

CERCLA US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act

DOT US Department of Transportation Regulations

EEL Employee Exposure Limit

IATA International Air Transport Association LD50 Dosage producing 50% mortality NA Not applicable/Not available

NE Not established

NIOSH National Institute for Occupational Safety and Health

OSHA PEL US Occupational Safety and Health Administration – Permissible Exposure Limit

Prop 65 California Proposition 65

RCRA US EPA, Resource Conservation and Recovery Act
RTECS Registry of Toxic Effects of Chemical Substances
SARA Superfund Amendments and Reauthorization Act

STEL 15-minute Short Term Exposure Limit

TSCA Toxic Substance Control Act
TWA 8-hour Time Weighted Average

MSDS Coordinator: Hospira GEHS

Date Prepared: 09/02/2011 Obsolete Date: 03/23/2011

#### Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, Hospira does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. Hospira assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.



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

**Product Identifier** 

Material Name: Bacteriostatic Water for Injection, USP (Hospira Inc.)

**Trade Name:** Bacteriostatic Water for Injection, USP

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

CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail:

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** No data available

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

nazardous				
Ingredient	CAS Number	EU	GHS Classification	%
		EINECS/ELINCS		
		List		

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3. COMPOSITION / INFORMATION ON INGREDIENTS						
BENZYL ALCOHOL	100-51-6	202-859-9	Acute Tox. 4 (H302)	1.1		
			Acute Tox. 4 (H332)			

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

Additional Information: \* Proprietary

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 eye(s) immediately with plenty of water. If irritation occurs or persists, get medical

attention.

**Skin Contact:** Rinse with plenty of water If skin irritation persists, call a physician.

**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:** Move to fresh air If discomfort occurs, get medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

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

**Exposure:** Identification and/or Section 11 - Toxicological Information.

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:** As for primary cause of fire.

Special Hazards Arising from the Substance or Mixture

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

**Products:** 

Fire / Explosion Hazards: Not applicable

Advice for Fire-Fighters

PZ03074

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

Material Name: Bacteriostatic Water for Injection, USP Page 3 of 6

(Hospira Inc.)

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## 6. ACCIDENTAL RELEASE MEASURES

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

Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill Measures for Cleaning /

Collecting: area thoroughly.

**Additional Consideration for** Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel. Large Spills:

# 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

Store as directed by product packaging. Do not refrigerate. **Storage Conditions:** 

**Incompatible Materials:** None known

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.

## **BENZYL ALCOHOL**

Pfizer OEL TWA-8 Hr: 10 ppm 5.0 mg/m<sup>3</sup> **Bulgaria OEL - TWA** Czech Republic OEL - TWA 40 mg/m<sup>3</sup> **Finland OEL - TWA** 10 ppm 45 mg/m<sup>3</sup> Latvia OEL - TWA 5 mg/m<sup>3</sup> Lithuania OEL - TWA 5 mg/m<sup>3</sup> Poland OEL - TWA 240 mg/m<sup>3</sup>

**Exposure Controls** 

Eyes:

**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). **Equipment:** 

Wear impervious gloves (e.g. Nitrile, etc.) if skin contact is possible. (Protective gloves must Hands:

> meet the standards in accordance with EN374. ASTM F1001 or international equivalent.) Wear safety glasses as minimum protection. (Safety glasses must meet the standards in

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

Impervious protective clothing is recommended if skin contact with drug product is possible and Skin:

for bulk processing operations. (Protective clothing must meet the standards in accordance

with EN13982, ANSI 103 or international equivalent.)

Material Name: Bacteriostatic Water for Injection, USP Page 4 of 6

(Hospira Inc.)

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**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.)

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Colourless

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available

Water Solubility: Soluble pH: Soluble

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

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

Water for Injection No data available BENZYL ALCOHOL No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

Viscosity:

No data available
No data available
No data available
No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
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: None
Conditions to Avoid: None known
Incompatible Materials: None known
Hazardous Decomposition None known

Products:

PZ03074

# 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Material Name: Bacteriostatic Water for Injection, USP Page 5 of 6

(Hospira Inc.)

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## 11. TOXICOLOGICAL INFORMATION

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) .

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

**BENZYL ALCOHOL** 

Rat Oral LD 50 1230 mg/kg Mouse Oral LD 50 1360mg/kg Rabbit Dermal LD 50 2gm/kg

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:** 

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

**BENZYL ALCOHOL** 

Fathead Minnow NPDES LC-50 96 Hours 460 - 770 mg/L

Bluegill NPDES LC-50 96 Hours 10 mg/L

Daphnia Magna (Water Flea) Surrogate ErC50 48 Hours 23 - 400 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

#### 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.

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Material Name: Bacteriostatic Water for Injection, USP Page 6 of 6

(Hospira Inc.)

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# 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Water for Injection

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

**BENZYL ALCOHOL** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

202-859-9

# 16. OTHER INFORMATION

# Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled

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

Revision date: 25-Jul-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** 



PRODUCTS + SERVICES

**HEALTHCARE TRENDS** 

SUPPORT CENTER

ABOUT HOSPIRA

13 > Support Center > SDS Overview

# (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 deta sheets have not been prepared for the products listed below.

4 Trace Elements Injection

Acetic Acid Imigation

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

Ascorbic Acid Injection **Balanced Salt Solution** Calcium Gluconate Injection

Cerdioptegic Solution (Plegisol™)

Chromic Chloride 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 Dextrose Injection

Elliot's Solution A

Glycine Irrigation

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

Injection

tonosol™ and Dextrose Injection Lactated Ringer's Injection

Lactated Ringer's Imigation

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

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 Irrigetion

Sodium Acetate Injection

Sodium Bicarbonate 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.





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

**Product Identifier** 

Material Name: Bacteriostatic Water for Injection, USP (Hospira Inc.)

Trade Name: Bacteriostatic Water for Injection, USP

Chemical Family: Not determined

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:** 

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

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

Contact E-Mail: 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 No data available

**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				
Ingredient	CAS Number	EU	GHS Classification	%
		EINECS/ELINCS		

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List

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3. COMPOSITION / INFORMATION ON INGREDIENTS						
BENZYL ALCOHOL	100-51-6	202-859-9	Acute Tox. 4 (H302)	1.1		
			Acute Tox. 4 (H332)			

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

Additional Information: \* Proprietary

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 eye(s) immediately with plenty of water. If irritation occurs or persists, get medical

attention.

**Skin Contact:** Rinse with plenty of water If skin irritation persists, call a physician.

**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:** Move to fresh air If discomfort occurs, get medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

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

**Exposure:** Identification and/or Section 11 - Toxicological Information.

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:** As for primary cause of fire.

Special Hazards Arising from the Substance or Mixture

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

**Products:** 

Fire / Explosion Hazards: Not applicable

**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

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## 6. ACCIDENTAL RELEASE MEASURES

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

Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill Measures for Cleaning /

Collecting: area thoroughly.

**Additional Consideration for** Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel. Large Spills:

# 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

Store as directed by product packaging. Do not refrigerate. **Storage Conditions:** 

**Incompatible Materials:** None known

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.

## **BENZYL ALCOHOL**

Pfizer OEL TWA-8 Hr: 10 ppm 5.0 mg/m<sup>3</sup> **Bulgaria OEL - TWA** Czech Republic OEL - TWA 40 mg/m<sup>3</sup> **Finland OEL - TWA** 10 ppm 45 mg/m<sup>3</sup> Latvia OEL - TWA 5 mg/m<sup>3</sup> Lithuania OEL - TWA 5 mg/m<sup>3</sup> Poland OEL - TWA 240 mg/m<sup>3</sup>

**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. Refer to applicable national standards and regulations in the selection and use of personal

**Personal Protective** 

protective equipment (PPE). **Equipment:** 

Wear impervious gloves (e.g. Nitrile, etc.) if skin contact is possible. (Protective gloves must Hands:

> meet the standards in accordance with EN374. ASTM F1001 or international equivalent.) Wear safety glasses as minimum protection. (Safety glasses must meet the standards in

Eyes: accordance with EN166, ANSI Z87.1 or international equivalent.)

Impervious protective clothing is recommended if skin contact with drug product is possible and Skin:

for bulk processing operations. (Protective clothing must meet the standards in accordance

with EN13982, ANSI 103 or international equivalent.)

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**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.)

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Colourless

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available

Water Solubility: Soluble pH: Soluble 4.5-7.0

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

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

Water for Injection No data available BENZYL ALCOHOL No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

Viscosity:

No data available
No data available
No data available
No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
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: None
Conditions to Avoid: None known
Incompatible Materials: None known
Hazardous Decomposition None known

**Products:** 

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# 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

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## 11. TOXICOLOGICAL INFORMATION

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) .

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

**BENZYL ALCOHOL** 

Rat Oral LD 50 1230 mg/kg Mouse Oral LD 50 1360mg/kg Rabbit Dermal LD 50 2gm/kg

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:** 

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

**BENZYL ALCOHOL** 

Fathead Minnow NPDES LC-50 96 Hours 460 - 770 mg/L

Bluegill NPDES LC-50 96 Hours 10 mg/L

Daphnia Magna (Water Flea) Surrogate ErC50 48 Hours 23 - 400 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

#### 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.

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# 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Water for Injection

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Not Listed

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

**BENZYL ALCOHOL** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Eisted

Not

# 16. OTHER INFORMATION

# Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled

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

Revision date: 25-Jul-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** 

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