# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078909971

N/A



#### MATERIAL SAFETY DATA SHEET

Product Name: Diltiazem Hydrochloride for Injection

## 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** 

Diltiazem Hydrochloride for Injection

**Synonyms** 

1,5-benzothiazepin-4(5H)-one, 3-(acetyloxy)-5-[2-(dimethylamino)ethyl]-2, 3-

dihydro-2-(4-methoxyphenyl)-, monohydrochloride,(+)-cis-.

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient Name Diltiazem Hydrochloride

**Chemical Formula** C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>S• HCl

**Preparation** Non-hazardous ingredients include mannitol.

Component	Approximate Percent by Weight	CAS Number	RTECS Number	
Diltiazem Hydrochloride	57	33286-22-5	DL0310000	

#### 3. HAZARD INFORMATION

Carcinogen List

Substance	IARC	NTP	OSHA
Diltiazem Hydrochloride	Not Listed	Not Listed	Not Listed

**Emergency Overview** 

Diltiazem Hydrochloride for Injection is a powder containing diltiazem hydrochloride a calcium antagonist (calcium channel blocker) used to treat angina pectoris, variant angina and essential hypertension. It is also given parenterally to treat supraventricular tachyarrhythmia, hypertensive emergencies or atrial fibrillation. In the workplace, this material should be considered potentially irritating to the eyes and respiratory tract. Based on clinical use, possible target organs include the cardiovascular system, nervous system, liver, and possibly the fetus.

**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 exposures. In clinical use, intravenous administration of diltiazem hydrochloride has produced a low incidence of lowered blood pressure (hypotension), decreased heart rate and alterations in cardiac function. Oral administration of diltiazem has produced a low incidence of headache, edema, asthenia, flushing, gastrointestinal upset, constipation, dizziness, decreased heart rate, alteration in cardiac function, hypersensitivity and rashes. Overdosage has resulted in bradycardia, hypotension, heart block and cardiac failure.



Medical Conditions Aggravated by Exposure Pre-existing hypersensitivity to this material; pre-existing cardiovascular or liver 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 for this product. However, many organic dusts will combust

at high temperatures.

Fire & Explosion Hazard None anticipated for this aqueous product. Avoid the creation of dusty

environments.

**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. Collect dust using methods that minimize the creation of airborne powder. 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 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	Туре	mg/m3	ppm	μg/m3	Note		
Diltiazem Hydrochloride	Not Applicable	N/A	N/A	N/A	None Established		

**Respiratory** protection

Respiratory protection is normally not needed during intended product use. However, if the generation of dusts or 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) is recommended under conditions where airborne dust or aerosol concentrations are not expected to be excessive. For uncontrolled release events, or if exposure levels are not known, provide respirators that offer a high protection factor such as a powered air purifying respirator or supplied air. 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 Solid

**Color** Off-white lyophilized powder

Odor NA
Odor Threshold: NA
pH: NA
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:** Diltiazem hydrochloride is soluble in water, methanol, and chloroform.

Partition coefficient: n-octanol/water: NA
Auto-ignition temperature: NA
Decomposition temperature: NA



## 10. STABILITY AND REACTIVITY

**Reactivity** Not determined.

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

**Hazardous Reactions** Not determined.

Conditions to avoid Not determined.

**Incompatibilities** Not determined.

**Hazardous decomposition** 

products

Not determined. During thermal decomposition, it may be possible to generate irritating vapors and/or toxic fumes of carbon oxides (COx), nitrogen oxides

(NOx), sulfur oxides (SOx) and hydrogen chloride.

**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
Diltiazem Hydrochloride	100	LD50	Oral	560 508	mg/kg mg/kg	Rat Mouse
Diltiazem Hydrochloride	100	LD50	Intravenous	38 58	mg/kg mg/kg	Rat Mouse

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

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

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

contact of this product with eyes may produce irritation.

**Dermal or Respiratory** 

Sensitization

None anticipated from normal handling of this product.

**Reproductive Effects** No evidence of impaired fertility was observed in a study in male and female

rats at oral dosages of up to 100 mg/kg/day. Reproduction studies conducted in mice, rats, and rabbits using oral dosages ranging from five to ten times greater (on a mg/kg basis) than the daily recommended oral anti-anginal therapeutic dose has resulted in embryo and fetal lethality. These dosages, in some studies, have been reported to cause skeletal abnormalities. In the perinatal/postnatal studies there was some reduction in early individual pup weights and survival rates. There was an increased incidence of stillbirths at doses of 20 times the

human oral anti-anginal dose or greater.

**Mutagenicity** Diltiazem was not mutagenic in repair and reverse mutation assays in bacteria,

did not produce chromosomal aberrations in cultured mammalian cells, and did

not produce chromosomal aberrations in the micronucleus assay in mice.



Carcinogenicity A 24-month study in rats at oral dosage levels of up to 100 mg/kg/day, and a

21-month study in mice at oral dosage levels of up to 30 mg/kg/day showed no

evidence of carcinogenicity.

**Target Organ Effects** Based on clinical use, possible target organs include the cardiovascular system,

nervous system, liver, and possibly the fetus.

# 12. ECOLOGICAL INFORMATION

Aquatic Toxicity Not determined for product.

**Persistence/Biodegradability** Not determined for product.

**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

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
Diltiazem Hydrochloride	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

RCRA Status Not Listed

<u>U.S. OSHA</u> Target Organ Toxin

<u>Classification</u> Possible Reproductive Toxin

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 Category Not Applicable

Signal Word Not Applicable

**Symbol** Not Applicable

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

Hazard Statement Not Applicable

**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 Diltiazem Hydrochloride

Classification(s): Not Applicable

**Symbol:** Not Applicable

**Indication of Danger:** Not Applicable

**Risk Phrases:** Not Applicable

**Safety Phrases:** S22 - Do not breathe dust.

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: 09/15/2011 Obsolete Date: 10/21/2008

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#### SAFETY DATA SHEET

Product Name: Diltiazem Hydrochloride for Injection

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name And Hospira, Inc.

**Address** 275 North Field Drive

Lake Forest, Illinois 60045

**USA** 

**Emergency Telephone** CHEMTREC: North America: 800-424-9300;

International 1-703-527-3887; Australia - 61-290372994; UK - 44-870-8200418

Hospira, Inc., Non-Emergency 224 212-2000

Product Name Diltiazem Hydrochloride for Injection

Synonyms 1,5-benzothiazepin-4(5H)-one, 3-(acetyloxy)-5-[2-(dimethylamino)ethyl]-2, 3-

dihydro-2-(4-methoxyphenyl)-, monohydrochloride,(+)-cis-.

# 2. HAZARD(S) IDENTIFICATION

**Emergency Overview** Diltiazem Hydrochloride for Injection is a lyophilized powder containing diltiazem

hydrochloride, a calcium antagonist (calcium channel blocker) used to treat angina pectoris, variant angina and essential hypertension, and other cardiovascular conditions. In the workplace, this material should be considered potentially irritating to the eyes and respiratory tract, and a potential occupational reproductive hazard. Based on clinical use, possible target organs include the cardiovascular system, nervous system, and liver.

## **U.S. OSHA GHS Classification**

Physical Hazards Hazard Class Hazard Category

Not Classified Not Classified

Health Hazards Hazard Class Hazard Category

Acute Toxicity – Oral 4
Eye Damage/Irritation 2B
Toxic to Reproduction 2
STOT - RE 2

Label Element(s)

Pictogram



Signal Word Warning

Hazard Statement(s) Harmful if swallowed

Causes eye irritation

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

**Precautionary Statement(s)** 

**Prevention** Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust, vapor or spray

Do not eat, drink or smoke when using this product

Wash hands thoroughly after handling



# 2. HAZARD(S) IDENTIFICATION: continued

If exposed or concerned: Get medical advice/attention. Get medical attention if you Response

feel unwell.

IF SWALLOWED: Call a poison center/doctor if you feel unwell. Rinse mouth.

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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Active Ingredient Name** Diltiazem Hydrochloride **Chemical Formula** C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>S• HCl

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Diltiazem Hydrochloride	57	33286-22-5	DL0310000

Non-hazardous ingredients include mannitol.

## 4. FIRST AID MEASURES

**Eve 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.

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

Provide symptomatic/supportive care as necessary.

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

Provide symptomatic/supportive care as necessary.

#### 5. FIRE FIGHTING MEASURES

**Flammability** None anticipated for this product. However, many organic dusts will combust at

elevated temperatures.

Fire & Explosion Hazard None anticipated for this aqueous product. Avoid the creation of dusty environments.

**Extinguishing Media** As with any fire, use extinguishing media appropriate for primary cause of fire such as

carbon dioxide, dry chemical extinguishing powder or foam.

**Special Fire Fighting** 

No special provisions required beyond normal firefighting equipment such as flame and chemical resistant clothing and self contained breathing apparatus. **Procedures** 

# 6. ACCIDENTAL RELEASE MEASURES

For spilled powder, isolate area around spill. Put on suitable protective clothing and Spill Cleanup and Disposal

equipment as specified by site spill control procedures. Collect the spilled powder using techniques that minimize powder migration. Clean affected area with soap and water. Dispose of materials according to the applicable federal, state, or local

regulations.

If a spill occurs after reconstitution, absorb liquid with suitable material and clean affected area with soap and water. Dispose of 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** 

		<b>Exposure Limits</b>				
Component	OSHA-PEL	ACGIH-TLV	AIHA WEEL	Hospira EEL		
Diltiozom Hydrochlorido	8-hr TWA: Not	8-hr TWA: Not	8-hr TWA: Not	8-hr TWA: Not		
Diltiazem Hydrochloride	Established	Established	Established	Established		

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

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

AIHA WEEL: Workplace Environmental Exposure Level

EEL: Employee Exposure Limit. TWA: 8-hour Time Weighted Average.

**Respiratory Protection** Respiratory protection is normally not needed during intended product use. However,

if the generation of dusts or 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) is recommended under conditions where airborne aerosol concentrations are not expected to be excessive. For uncontrolled release events, or if exposure levels are not known, provide respirators that offer a high protection factor such as a powered air purifying respirator or supplied air. 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 Off-white lyophilized powder

Odor NA **Odor Threshold** NA pН NA NA Melting point/Freezing Point **Initial Boiling Point/Boiling Point Range** NA **Flash Point** NA **Evaporation Rate** NA Flammability (solid, gas) NA **Upper/Lower Flammability or Explosive Limits** NA Vapor Pressure NA

**Solubility** Diltiazem hydrochloride is soluble in water, methanol, and chloroform

NA

NA

Partition Coefficient: n-octanol/waterNAAuto-ignition TemperatureNADecomposition TemperatureNAViscosityNA

## 10. STABILITY AND REACTIVITY

**Reactivity** Not determined.

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

Hazardous Reactions Not determined

Conditions to Avoid Not determined

**Incompatibilities** Not determined

**Hazardous Decomposition** 

Vapor Density (Air =1)

**Relative Density** 

**Products** irritating vapors and/or toxic fumes of carbon oxides (COx), nitrogen oxides (NOx),

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

sulfur oxides (SOx) and hydrogen chloride.

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

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** - Not determined for the product formulation. Information for the active ingredient is as follows:

Ingredient(s)	Percent	Test Type	Route of Administration	Value	Units	Species
Diltiazem Hydrochloride	100	LD50	Oral	560 508	mg/kg mg/kg	Rat Mouse
Diltiazem Hydrochloride	100	LD50	Intravenous	38 58	mg/kg mg/kg	Rat Mouse

LD 50: Dosage that produces 50% mortality.



## 11. TOXICOLOGICAL INFORMATION: continued

**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 anticipated from normal handling of this product. In clinical use, intravenous administration of diltiazem hydrochloride has produced a low incidence of lowered blood pressure (hypotension), decreased heart rate and alterations in cardiac function. Oral administration of diltiazem has produced a low incidence of headache, edema, asthenia, flushing, gastrointestinal upset, constipation, dizziness, decreased heart rate, alteration in cardiac function, hypersensitivity and rashes. Overdosage has resulted in bradycardia, hypotension, heart block and cardiac failure.

**Aspiration Hazard** 

None anticipated from normal handling of this product.

**Dermal Irritation/ Corrosion** 

None anticipated from normal handling of this product.

**Ocular Irritation/ Corrosion** 

None anticipated from normal handling of this product. However, inadvertent contact

of this product with eyes may produce irritation.

**Dermal or Respiratory** Sensitization

None anticipated from normal handling of this product.

**Reproductive Effects** 

None anticipated from normal handling of this product. No evidence of impaired fertility was observed in a study in male and female rats at oral dosages of up to 100 mg/kg/day. Reproduction studies conducted in mice, rats, and rabbits using oral dosages ranging from five to ten times greater (on a mg/kg basis) than the daily recommended oral anti-anginal therapeutic dose has resulted in embryo and fetal lethality. These dosages, in some studies, have been reported to cause skeletal abnormalities. In the perinatal/postnatal studies there was some reduction in early individual pup weights and survival rates. There was an increased incidence of stillbirths at doses of 20 times the human oral anti-anginal dose or greater.

Mutagenicity

Diltiazem was not mutagenic in repair and reverse mutation assays in bacteria, did not produce chromosomal aberrations in cultured mammalian cells, and did not produce chromosomal aberrations in the micronucleus assay in mice.

Carcinogenicity

A 24-month study in rats at oral dosage levels of up to 100 mg/kg/day, and a 21-month study in mice at oral dosage levels of up to 30 mg/kg/day showed no evidence of carcinogenicity.

**OSHA:** Not listed

**Carcinogen Lists** 

**Specific Target Organ Toxicity** 

- Single Exposure

NA

**Specific Target Organ Toxicity** 

- Repeat Exposure

Based on clinical use, possible target organs include the cardiovascular system,

**NTP:** Not listed

nervous system, and liver.

IARC: Not listed

# 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity** Not determined for product Persistence/Biodegradability Not determined for product. **Bioaccumulation** Not determined for product. **Mobility in Soil** Not determined for product.

Notes:



# 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

Proper Shipping Name NA
Hazard Class NA
UN Number NA
Packing Group NA
Reportable Quantity NA

ICAO/IATA STATUS Not regulated

Proper Shipping Name NA
Hazard Class NA
UN Number NA
Packing Group NA
Reportable Quantity NA

IMDG STATUS Not regulated

Proper Shipping Name NA
Hazard Class NA
UN Number NA
Packing Group NA
Reportable Quantity NA

Notes: DOT - US Department of Transportation Regulations

# 15. REGULATORY INFORMATION

US TSCA Status Exempt.
US CERCLA Status Not listed
US SARA 302 Status Not listed
US SARA 313 Status Not listed
US RCRA Status Not listed

US PROP 65 (Calif.)

This product is, or contains, a material known to the State of California to cause

developmental toxicity.

Notes: TSCA, Toxic Substance Control Act; CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act; SARA, Superfund Amendments and Reauthorization Act; RCRA, US EPA, Resource Conservation and Recovery Act; Prop 65, California Proposition 65



## 15. REGULATORY INFORMATION: continued

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

mixtures, such as medicinal products as defined in Directive 2001/83/EC, which are in

the finished state, intended for the final user.

Hazard Class Hazard Category Pictogram Signal Word Hazard Statement

NA NA NA NA NA

**Prevention** Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust, vapor or spray

Do not eat, drink or smoke when using this product

Wash hands thoroughly after handling

**Response** If exposed or concerned: Get medical advice/attention. Get medical attention if you

feel unwell.

IF SWALLOWED: Call a poison center/doctor if you feel unwell. Rinse mouth.

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.

**EU Classification\*** \*Medicinal products are exempt from the requirements of the EU Dangerous

Preparations Directive.

Classification(s) NA
Symbol NA
Indication of Danger NA
Risk Phrases NA

**Safety Phrases** S23: Do not breathe vapor/spray

S24: Avoid contact with the skin S25: Avoid contact with 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

 $\begin{array}{ll} IATA & International \ Air \ Transport \ Association \\ LD_{50} & Dosage \ producing \ 50\% \ mortality \\ NA & Not \ applicable/Not \ available \\ \end{array}$ 

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

STOT - SE Specific Target Organ Toxicity – Single Exposure STOT - RE Specific Target Organ Toxicity – Repeated Exposure

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



# 16. OTHER INFORMATION: continued

MSDS Coordinator: Hospira GEHS
Date Prepared: October 17, 2012
Date Revised: June 02, 2014

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