SAFETY DATA SHEETS

This SDS packet was issued with item:

078905711

N/A



MATERIAL SAFETY DATA SHEET

Product Name: Erythrocin Lactobionate (Sterile Erythromycin Lactobionate, 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

Erythrocin Lactobionate (Sterile Erythromycin Lactobionate, USP)

Synonyms

Erythromycin mono (4-0-\subseteq-D-galactopyranosyl-D-gluconate) (salt)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient Name Erythromycin Lactobionate

Chemical Formula $C_{37}H_{67}NO_{13} \bullet C_{12}H_{22}O_{12}$

Component	Approximate Percent by Weight	CAS Number	RTECS Number	
Erythromycin Lactobionate	100	3847-29-8	OD7320000	

3. HAZARD INFORMATION

Carcinogen List

Substance	IARC	NTP	OSHA
Erythromycin Lactobionate	Not Listed	Not Listed	Not Listed

Emergency Overview

Erythrocin Lactobionate (Sterile Erythromycin Lactobionate, USP) is a powder containing lyophilized erythromycin lactobionate, a salt of the macrolide antibiotic erythromycin. Clinically, erythromycin lactobionate is used to treat infections due to susceptible organisms. 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 liver, cardiovascular system and the auditory system (hearing).

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

In the workplace, erythromycin base and some salts have been reported to be irritating to the eyes and respiratory tract. In clinical use, adverse effects may include abdominal pain and cramps, nausea, vomiting, and diarrhea, most frequently. Hepatic dysfunction has been reported occasionally. Erythromycin has been associated with QT prolongation and ventricular arrhythmias, including ventricular tachycardia and torsades de pointes. Reversible high frequency loss has been reported with erythromycin in patients with renal insufficiency. Transient deafness has been reported following daily therapy of 4 grams or more. Allergic reactions (mostly rashes, pruritus, and urticaria; infrequently anaphylactoid/ respiratory) have been clinically evident in < 0.05% of treated patients. Prolonged therapy can result in



overgrowth of non-susceptible bacteria/fungi.

Medical Conditions Aggravated by Exposure

Pre-existing hypersensitivity to macrolide antibiotics. Pre-existing liver or cardiovascular

ailments; pre-existing hearing disorders.

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 product. Avoid the generation 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 For spilled powder, isolate area around spill. Put on suitable protective clothing

and equipment as specified by site spill procedures. Collect the spilled powder using techniques that minimize powder migration. Clean affected area with soap and water. Absorb any liquid with an inert absorbent material (e.g. absorbent pad). 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 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	
Erythromycin Lactobionate	AIHA WEEL	3	N/A	N/A	8hr TWA	

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 White to off-white powder

Odor NA
Odor Threshold: NA

pH: 6.5 to 7.5 for a 2% aqueous solution

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:NAVapor Density:NASpecific Gravity:NASolubility:NAPartition coefficient: n-octanol/water:NAAuto-ignition temperature:NADecomposition 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) and nitrogen

oxides (NOx).

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
Erythromycin Lactobionate	100	LD50	Intraperitoneal	735	mg/kg	Mouse

Aspiration Hazard None anticipated from normal handling of this product.

Dermal Irritation/CorrosionNone anticipated from normal handling of this product.

Ocular Irritation/Corrosion None anticipated from normal handling of this product. Inadvertent 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. In clinical use, allergic reactions, ranging from urticaria to anaphylaxis, have occurred. Skin reactions ranging from mild eruptions to erythema multiforme, Stevens-Johnson

syndrome, and toxic epidermal necrolysis have been reported rarely.

Reproductive EffectsThere was no apparent effect on male or female fertility in rats fed

erythromycin (base) at levels up to 0.25% of diet. There was no evidence of teratogenicity or any other adverse effect on reproduction in female rats fed erythromycin base (up to 0.25% of diet) prior to and during mating, during

gestation, and through weaning of two successive litters.

Mutagenicity Mutagenicity studies have not been conducted.

CarcinogenicityLong-term animal data with erythromycin lactobionate for use in determination

of possible carcinogenic effects are not available. However, long-term oral studies in rats with erythromycin ethylsuccinate and erythromycin base did not

provide evidence of tumorigenicity.



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

system and the auditory system (hearing).

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
Erythromycin Lactobionate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

RCRA Status Not Listed

U.S. OSHAPossible Skin IrritantClassificationTarget Organ Toxin

*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/vapours/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 Erythromycin Lactobionate

Classification(s): Not Applicable

Symbol: Not Applicable

Indication of Danger: Not Applicable

Risk Phrases: Not Applicable

Safety Phrases: S23 - Do not breathe vapor.

S24 - Avoid contact with 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

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: 06/08/2011 Obsolete Date: 10/21/2008

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SAFETY DATA SHEET

Product Name: Erythrocin Lactobionate-IV (erythromycin lactobionate for injection, USP)

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

Erythrocin Lactobionate-IV (erythromycin lactobionate for injection, USP)

Synonyms

Erythromycin mono (4-0-β-D-galactopyranosyl-D-gluconate) (salt)

2. HAZARD(S) IDENTIFICATION

Emergency Overview Erythrocin Lactobionate-IV (erythromycin lactobionate for injection, USP) is a

powder containing lyophilized erythromycin lactobionate, a salt of the macrolide antibiotic erythromycin. Clinically, erythromycin lactobionate is used to treat infections due to susceptible organisms. 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 liver, cardiovascular system and the auditory system

(hearing).

U.S. OSHA GHS Classification

Physical Hazards Hazard Class Hazard Category

Not Classified Not Classified

Health Hazards Hazard Class Hazard Category

Eye Damage / Irritation 2B

Label Element(s)

Pictogram NA

Signal Word Warning

Hazard Statement(s) Causes eye irritation

Precautionary Statement(s)

Prevention Do not breathe vapor or spray

Wash hands thoroughly after handling

Response Get medical attention if you feel unwell.

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 NameErythromycin LactobionateChemical Formula $C_{37}H_{67}NO_{13} \bullet C_{12}H_{22}O_{12}$

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Erythromycin Lactobionate	100	3847-29-8	OD7320000

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

elevated temperatures.

Fire & Explosion Hazard None anticipated for this product. Avoid the generation 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

Procedures

No special provisions required beyond normal firefighting equipment such as flame

and chemical resistant clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

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

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. Absorb any liquid with an inert absorbent material (e.g. absorbent pad). 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

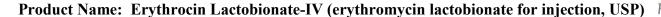
Handling No special handling required under conditions of normal product use.

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	OSHA-PEL	ACGIH-TLV	AIHA WEEL	Hospira EEL	
Emthromysin Lastahianata	8-hr TWA: Not	8-hr TWA: Not	8-hr TWA: 3 mg/m3	8-hr TWA: Not	
Erythromycin Lactobionate	Established	Established	as erythromycin	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 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 White to off-white powder

Odor NA
Odor Threshold NA

pH 6.5 to 7.5 for a 2% aqueous solution

NA Melting point/Freezing Point Initial Boiling Point/Boiling Point Range NA NA Flash Point **Evaporation Rate** NA Flammability (solid, gas) NA **Upper/Lower Flammability or Explosive Limits** NA Vapor Pressure NA Vapor Density (Air =1) NA **Relative Density** NA **Solubility** NA Partition Coefficient: n-octanol/water NA **Auto-ignition Temperature** NA **Decomposition Temperature** NA NA Viscosity

Product Name: Erythrocin Lactobionate-IV (erythromycin lactobionate for injection, USP)



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) and nitrogen oxides

(NOx).

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
Erythromycin Lactobionate	100	LD50	Intraperitoneal	735	mg/kg	Mouse

LD 50: Dosage that produces 50% mortality.

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 the workplace, erythromycin base and some salts have been reported to be irritating to the eyes and respiratory tract. In clinical use, adverse effects may include abdominal pain and cramps, nausea, vomiting, and diarrhea, most frequently. Hepatic dysfunction has been reported occasionally. Erythromycin has been associated with QT prolongation and ventricular arrhythmias, including ventricular tachycardia and torsades de pointes. Reversible high frequency loss has been reported with erythromycin in patients with renal insufficiency. Transient deafness has been reported following daily therapy of 4 grams or more. Allergic reactions (mostly rashes, pruritus, and urticaria; infrequently anaphylactoid/ respiratory) have been clinically evident in < 0.05% of treated patients. Prolonged therapy can result in

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

overgrowth of non-susceptible bacteria/fungi.

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. In clinical use, allergic reactions, ranging from urticaria to anaphylaxis, have occurred. Skin reactions ranging from mild eruptions to erythema multiforme, Stevens-Johnson syndrome,

and toxic epidermal necrolysis have been reported rarely.

Reproductive EffectsNone anticipated from normal handling of this product. There was no apparent effect

on male or female fertility in rats fed erythromycin (base) at levels up to 0.25% of diet. There was no evidence of teratogenicity or any other adverse effect on reproduction in female rats fed erythromycin base (up to 0.25% of diet) prior to and during mating, during gestation, and through weaning of two successive litters.

Mutagenicity Mutagenicity studies have not been conducted.

Product Name: Erythrocin Lactobionate-IV (erythromycin lactobionate for injection, USP)



11. TOXICOLOGICAL INFORMATION: continued

Carcinogenicity Long-term animal data with erythromycin lactobionate for use in determination of

possible carcinogenic effects are not available. However, long-term oral studies in rats with erythromycin ethylsuccinate and erythromycin base did not provide

evidence of tumorigenicity.

Carcinogen Lists IARC: Not listed NTP: Not listed OSHA: Not listed

Specific Target Organ Toxicity

Specific Target Organ Toxicity

- Single Exposure

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

- **Repeat Exposure** and the auditory system (hearing).

NA

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.)	Not listed

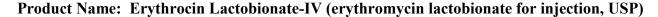
Notes: TSCA, Toxic Substance Control Act; CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act; SARA, Superfund Amendments and Reauthorization Act; RCRA, US EPA, Resource Conservation and Recovery Act; Prop 65, California Proposition 65

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	Do not breathe vapor or spray Wash hands after handling							
Response	Get medical attention	if you feel unwell.						
	IF IN EYES: Rinse ca if present and easy to attention.	•		Remove contact lenses, ersists, get medical				
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 v	apor/spray						

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





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

MSDS Coordinator: Hospira GEHS
Date Prepared: October 18, 2012
Date Revised: June 02, 2014

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