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

Greenstone LLC 100 Route 206 North Peapack, NJ 07977 800-435-7095 Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300

Material Name: Clindamycin Phosphate Topical Lotion (Greenstone LLC)

Trade Name: Not applicable

Synonyms: None

Chemical Family: Not determined

Intended Use: Pharmaceutical product used as, antibiotic agent

### 2. HAZARDS IDENTIFICATION

Appearance: Colorless lotion Signal Word: WARNING

**Statement of Hazard:** May cause allergic skin reaction.

**Additional Hazard Information:** 

Short Term: May cause mild skin irritation (based on animal data). An Occupational Exposure Limit has

been established for one or more of the ingredients (see Section 8).

Known Clinical Effects: Individuals sensitive to this material or other materials in its chemical class may develop

allergic reactions. Clinical use of this drug has caused burning sensation of the skin, itching, abnormal redness of skin (erythema). Ingestion of this material may cause effects similar to those generally seen in clinical use of antibiotics including gastrointestinal irritation, vomiting,

transient diarrhea, nausea, and abdominal pain.

EU Indication of danger: Irritant

**EU Hazard Symbols:** 



**EU Risk Phrases:** 

R43 - May cause sensitization by skin contact.

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

require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings 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

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Ingredient	CAS Number	<b>EU EINECS/ELINCS List</b>	<b>EU Classification</b>	%
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3. COMPOSITION/INFORMATION ON INGREDIENTS					
Glycerin, USP	56-81-5	200-289-5	Not Listed	*	
Clindamycin Phosphate	24729-96-2	246-433-0	Xi;R36-43 Xn;R22	1	
Glyceryl stearate	123-94-4	204-664-4	Not Listed	*	
Stearic acid	57-11-4	200-313-4	Not Listed	*	

Ingredient	CAS Number	<b>EU EINECS/ELINCS List</b>	<b>EU Classification</b>	%
Isostearyl Alcohol	27458-93-1	248-470-8	Not Listed	2.5
Sodium Lauroylsarcosinate	137-16-6	205-281-5	Not Listed	*
Cetyl/Stearyl alcohol	67762-27-0	267-008-6	Not Listed	2.5
Methylparaben	99-76-3	202-785-7	Not Listed	*
Potassium stearate	593-29-3	209-786-1	Not Listed	*
Water, purified	7732-18-5	231-791-2	Not Listed	*

Additional Information: \* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

# 4. FIRST AID MEASURES

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

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

Identification and/or Section 11 - Toxicological Information.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and other

sulfur-containing compounds.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

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# 6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

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

area thoroughly.

**Measures for Environmental** 

**Protections:** 

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

**Additional Consideration for Large** 

Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

# 7. HANDLING AND STORAGE

General Handling: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use

appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. 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.

**Storage Conditions:** Store as directed by product packaging.

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Glycerin, USP

**ACGIH Threshold Limit Value (TWA)** 10 mg/m<sup>3</sup> **ACGIH OELs - Notice of Intended Changes** Listed Australia TWA 10 mg/m<sup>3</sup> **Belgium OEL - TWA** 10 mg/m<sup>3</sup> 10 mg/m<sup>3</sup> Czech Republic OEL - TWA **Estonia OEL - TWA** 10 mg/m<sup>3</sup> Finland OEL - TWA 20 mg/m<sup>3</sup> France OEL - TWA 10 mg/m<sup>3</sup> Germany (DFG) - MAK 50 mg/m<sup>3</sup> 10 mg/m<sup>3</sup> **Greece OEL - TWA** 10 mg/m<sup>3</sup> **Ireland OEL - TWAs OSHA - Final PELS - TWAs:** 15 mg/m<sup>3</sup> Poland OEL - TWA 10 mg/m<sup>3</sup> 10 mg/m<sup>3</sup> Portugal OEL - TWA Spain OEL - TWA 10 mg/m<sup>3</sup>

Clindamycin Phosphate

Manufacturer OEL: 100ug/m<sup>3</sup>

Potassium stearate

Lithuania OEL - TWA 5 mg/m³
Sweden OEL - TWAs 5 mg/m³

**Glyceryl stearate** 

ACGIH Threshold Limit Value (TWA) 10 mg/m<sup>3</sup>

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

protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

**Eyes:** Wear safety glasses or goggles if eye contact is possible.

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

for bulk processing operations. Individuals with known sensitivity should wear long sleeves to

avoid skin contact. Wash hands and arms thoroughly after handling this material. 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Respiratory protection:

Physical State:LotionColor:ColorlessMolecular Formula:MixtureMolecular Weight:Mixture

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal conditions

Conditions to Avoid: None known

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

# 11. TOXICOLOGICAL INFORMATION

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

ingredients.

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

### Clindamycin Phosphate

Rat Oral LD 50 1832 mg/kg

Rat Para-periosteal LD 50 321 mg/kg Rat Intraperitoneal LD 50 745 mg/kg Mouse Oral LD 50 2359 mg/kg Mouse Intravenous LD 50 820 mg/kg

#### Methylparaben

Mouse Oral LD50 > 8000 mg/kg Rat Oral LD50 2280 mg/kg

### Glycerin, USP

Mouse Oral LD50 4090 mg/kg Rat Oral LD50 12.6 g/kg

Rabbit Dermal LD50 > 10 g/kg Rat Inhalation LC50 1hr > 570 mg/m $^3$ 

Rat Dermal LD 50 >21.9 g/kg

#### Glyceryl stearate

Rat IP LD50 200 mg/kg

### Stearic acid

Rat Oral LD50 > 4640 mg/kg Rabbit Dermal LD50 > 5000 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

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

# **Clindamycin Phosphate**

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

### Glycerin, USP

Eye Irritation Rabbit Mild

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# 11. TOXICOLOGICAL INFORMATION

Stearic acid

Skin Irritation Rabbit Moderate Eye Irritation Rabbit Mild

### Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Clindamycin Phosphate

Oral 600 mg/kg/day No effects at maximum dose 6 Month(s) Rat NOAEL Oral 600 mg/kg/day 6 Month(s) Dog NOAEL Gastrointestinal system

Stearic acid

30 Week(s) Rat Oral 300 ppm LOAEL Adipose tissue

### Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

**Clindamycin Phosphate** 

Prenatal & Postnatal Development Rat Subcutaneous 250 mg/kg NOAEL Not teratogenic Prenatal & Postnatal Development Rat Oral 300 mg/kg/day NOAEL Not Teratogenic Prenatal & Postnatal Development Mouse Oral 600 mg/kg/day Not Teratogenic NOAEL Subcutaneous 5 mg/kg/day Prenatal & Postnatal Development Rabbit NOAEL Not Teratogenic, Maternal Toxicity

Reproductive & Fertility Oral 300 mg/kg/day NOAEL Rat No effects at maximum dose

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

Clindamycin Phosphate

Bacterial Mutagenicity (Ames) Salmonella Negative In Vitro Micronucleus Rat Negative

Stearic acid

In Vitro Bacterial Mutagenicity (Ames) Salmonella Negative Unscheduled DNA Synthesis E. coli Negative

# Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Stearic acid

26 Week(s) Rat Subcutaneous 0.5 mg/kg/week NOAEL Not carcinogenic 52 Week(s) Mouse Subcutaneous 0.05 mg/kg/week LOAEL Tumors

**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 thoroughly investigated. Releases to the environment

should be avoided.

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

Glycerin, USP

Oncorhynchus mykiss (Rainbow Trout) LD50 96 Hours 50 mg/L Daphnia magna (Water Flea) EC50 24 Hours >500 mg/L

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# 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

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

### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

### 15. REGULATORY INFORMATION

EU Symbol: Xi EU Indication of danger: Irritant

**EU Risk Phrases:** 

R43 - May cause sensitization by skin contact.

**EU Safety Phrases:** 

S24 - Avoid contact with skin.

S36/37 - Wear suitable protective clothing and gloves.

**OSHA Label:** 

WARNING

May cause allergic skin reaction.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision B



**Isostearyl Alcohol** 

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

Australia (AICS):

EU EINECS/ELINCS List

Present
248-470-8

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# 15. REGULATORY INFORMATION

Sodium Lauroylsarcosinate

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

Australia (AICS):

Fresent

EU EINECS/ELINCS List

205-281-5

Glycerin, USP

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present

**REACH - Annex V - Exemptions from the obligations of Register:**Present if not chemically modified, except they meet the criteria for classification as dangerous according to Directive 67/548/EEC,

except those only classified as flammable [R10], as a skin irritant [R38] or as an eye irritant [R36], except they are persistent, bioaccumulative, and toxic or very persistent and very

bioaccumulative in accordance with the criteria set out in Annex XIII, except they were identified in accordance with Article 59[1] at

least two years previously as substances giving rise to an

equivalent level of concern

EU EINECS/ELINCS List 200-289-5

**Clindamycin Phosphate** 

EU EINECS/ELINCS List 246-433-0

Cetyl/Stearyl alcohol

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

Australia (AICS):

EU EINECS/ELINCS List

Present
267-008-6

Methylparaben

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

Australia (AICS):

EU EINECS/ELINCS List

Present
202-785-7

Potassium stearate

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

Australia (AICS):

Present

EU EINECS/ELINCS List

209-786-1

**Glyceryl stearate** 

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

Australia (AICS):

REACH - Annex IV - Exemptions from the

Present

Present

obligations of Register:

EU EINECS/ELINCS List 204-664-4

Water, purified

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

Australia (AICS):

REACH - Annex IV - Exemptions from the

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

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# 15. REGULATORY INFORMATION

Stearic acid

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

Australia (AICS):

EU EINECS/ELINCS List

Present
200-313-4

# **16. OTHER INFORMATION**

### Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed. R36 - Irritating to eyes.

R43 - May cause sensitization by skin contact.

**Data Sources:** Publicly available toxicity information. The data contained in this MSDS may have been

gathered from confidential internal sources, raw material suppliers, or from the published

literature.

**Reasons for Revision:** Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Prepared by: Product Stewardship Hazard Communication

Global Environment, Health, and Safety Operations

It is believed that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without a 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**