

SAFETY DATA SHEETS

This SDS packet was issued with item:

078359107

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).

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MATERIAL SAFETY DATA SHEET	MSDS # 3510-277
Identity: Clinsol[®] (clindamycin hydrochloride) Liquid	Page 1 of 2
Product Code 902520	

Section I	
Supplier Information:	Emergency Telephone Number
Name: VIRBAC CORP.	Transportation: Chemtrec 800-424-9300
Virbac AH Inc.	Other emergencies:
Address: P. O. BOX 162059	POISON CONTROL CENTER or 911
City: FORT WORTH	Telephone Number for Information
State: TX 76161	Contact Virbac: 800/338-3659

Section II - Hazardous Ingredients/Identity Information					
Hazardous Components	OSHA PEL	ACGIH TLV	STEL	CAS #	% (opt.)
(Special Chemical Identification; Common Name)					
Clindamycin Hydrochloride	Not Applicable	Not Applicable	Not Applicable	21462-36-5	25 mg of clindamycin
Ethyl Alcohol	Not Applicable	Not Applicable	Not Applicable	64-17-5	8.4%

Section III - Physical/Chemical Characteristics	
Boiling Point:	Not Applicable
Specific Gravity (H ₂ O = 1):	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Melting Point:	Not Applicable
Vapor Density (AIR = 1):	Not Applicable
Evaporation Rate (Butyl Acetate = 1):	Not Applicable
Solubility in Water:	Not Applicable
Appearance and Odor:	Liquid

Section IV - Fire and Explosion Hazard Data	
Flash Point (Method Used):	Not Applicable
Flammable Limits:	LEL: Not Applicable
	UEL: Not Applicable
Extinguishing Media:	Water spray, dry chemical, carbon dioxide, or foam suitable for the surrounding fire and materials.
Special Firefighting Procedures:	Wear self-contained breathing apparatus with full-face piece and protective clothing.
Unusual Fire and Explosion Hazards:	Emits toxic fumes under fire conditions.

Section V - Reactivity Data	
Stability	STABLE
Incompatibility	(Materials to Avoid): None Known
	Strong Oxidizing Agents
Hazardous Decomposition or Byproducts:	Emits toxic fumes under fire conditions.
	Carbon monoxide, carbon dioxide, hydrogen chloride gas, nitrogen oxides, sulfur oxides.
Hazardous Polymerization	WILL NOT OCCUR
Conditions to Avoid:	Heat or open flame.

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Section VI - Health Hazard Data			
Routes of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic):	Irritant		
Target Organs:	Nerves. Kidneys. Liver.		
Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
Signs and Symptoms of Exposure:	Irritating to eyes, respiratory system and skin. Aminoglycosides are associated with significant nephrotoxicity and/or ototoxicity. This product has not been thoroughly investigated.		
Medical Conditions Generally Aggravated by Exposure:	Skin contact may aggravate existing skin disease. Hypersensitivity to the material.		
Emergency and First Aid Procedures			
INGESTED:	If large quantities swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center.		
SKIN CONTACT:	Wash affected areas promptly and thoroughly with soap and water. Rinse thoroughly. If irritation occurs, get medical attention.		
EYE CONTACT:	Immediately rinse eyes with water for a minimum of 15 minutes and call a physician if irritation persists.		
INHALATION:	Reduce exposure by supplying fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.		

Section VII - Precautions for Safe Handling and Use	
Steps to be Taken in Case Material is Released or Spilled:	Sweep up spillage. Avoid contact. Place spillage in appropriate container for waste disposal. Ventilate area and wash spill site after material pickup is complete.
Waste Disposal Method:	Dispose of in accordance with all applicable federal, state, and local laws.
Precautions to be Taken in Handling or Storage:	Do not breathe dust. Store at control room temperature 20°-25°C (68°-77°F).
Other Precautions:	Keep out of the reach of children. Wash hands after using product. Avoid contact with eyes and skin. Avoid prolonged or repeated exposure.

Section VIII - Control Measures	
Respiratory Protection:	Not necessary under recommended conditions of use.
Ventilation	Local Exhaust: No special ventilation required when used according to label directions.
	Special: Not Applicable
	Mechanical (General): Not Applicable
Protective Gloves:	Rubber gloves for prolonged or repeated exposure.
Eye Protection:	Not necessary under recommended conditions of use. Glasses or goggles, if splashing may occur.
Other Protective Clothing or Equipment:	Read and follow directions on product label.

Section IX - Additional Information	
Clinsol is a trademark of Virbac AH, Inc.	

Disclaimer of Expressed and Implied Warranties: This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.

Prepared by Regulatory Affairs Department
New MSDS Dated: February 23, 2009
Supersedes MSDS Date: April 24, 2008



MATERIAL SAFETY DATA SHEET
CLINSOL® (clindamycin) Liquid
Product Code: 902520

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name CLINSOL® (clindamycin) Liquid
Product Description Antibiotic for dogs and cats
Manufacturer/Supplier Virbac AH, Inc.
Address P.O. Box 162059
Fort Worth, Texas 76161
Phone Number (800) 338-3659
Chemtrec Number (24 hour) (800) 424-9300
Other Emergency Numbers: Poison Control Center: 1-800-222-1222
MSDS Revision Date: January 30, 2012
Supersedes MSDS Dated: February 23, 2009

Material Safety Data Sheet in compliance with OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

Avoid contact with eyes.
For animal use only.
May cause allergic reaction.
Keep out of reach of children.

Routes of Entry

Eye contact - Skin contact - Ingestion - Inhalation

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

Eyes - Skin - Central Nervous System - Liver - Heart - Kidney

Health Effects - Eyes

Contact with eyes can cause irritation.

Health Effects - Skin

Contact with skin may cause slight irritation. Possible allergic skin reaction in individuals hypersensitive to clindamycin and lincomycin.

Health Effects - Ingestion

Ingestion of large quantities or chronic ingestion of this material may cause gastrointestinal effects such as nausea, vomiting, diarrhea, and abdominal cramps and adverse liver, heart, blood, kidney and central nervous system effects. Ingestion may cause allergic skin reaction in individuals hypersensitive to clindamycin and lincomycin.

Health Effects - Inhalation

No adverse effects are expected during normal conditions of use.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Clindamycin Hydrochloride	58207-19-5	~3.0%*
Propylene Glycol	57-55-6	5 - 15%
Ethyl Alcohol	64-17-5	5 - 15%
Sorbitol	50-70-4	15 - 25%
Glycerine	56-81-5	1 - 5%
Sucrose	57-50-1	5 - 15%

*Equivalent to 25 mg per mL clindamycin

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water.

Ingestion

Contact a physician immediately if ingested. Physician may call a poison control center for advice concerning human ingestion.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

Advice to Physicians

Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use foam, dry chemical or carbon dioxide. . Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards

Can release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective clothing. Wipe up and transfer into suitable containers for recovery or disposal. Eliminate all sources of ignition. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Store in original container at temperatures between 68°F and 77°F (20°C - 25° C). Keep out of sunlight. Keep container tightly closed in a cool dry place. Keep away from children. Wash hands after dispensing and before eating, drinking or smoking



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Clindamycin Hydrochloride

None established.

Propylene Glycol

None established

Ethyl Alcohol

ACGIH: 1000 ppm 15-min STEL

OSHA: PEL 1000ppm (1900 mg/m³) 8h TWA

Sucrose

ACGIH: TLV 10 mg/m³ TWA 8h

OSHA: PEL 5 mg/m³, respirable fraction

OSHA: PEL 15 mg/m³, total dust

Sorbitol

None established

Glycerin (Mist)

ACGIH: TLV 10 mg/m³ 8h TWA.

OSHA: PEL 5 mg/m³ 8h TWA respirable fraction

15mg/m³ 8h TWA total dust

Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection

Not required under normal conditions of use.

Hand Protection

Gloves

Eye Protection

Not required under normal conditions of use.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Clear
Odor	No data available
pH	Not applicable
Specific Gravity	No data available
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	Not applicable
Flash Point (PMCC) (F)	Est. >120°F
Explosion Limits (%)	No data available
Vapor Pressure	Not applicable
Density	No data available
Solubility in Water	No data available
Vapor Density (Air = 1)	Not applicable



10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Heat, sparks, flames - high temperatures - sources of ignition - direct sunlight

Materials to Avoid

Oxidizers – strong acids – strong bases

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon – nitrogen oxides - organic compounds

11. TOXICOLOGICAL INFORMATION

See product insert and/or packaging for additional information.

Acute Toxicity

Clindamycin Hydrochloride: LD50 Rat oral 2619 mg/kg

Propylene Glycol: Oral LD50 (rat) 22,000 mg/kg

Ethyl Alcohol: Oral LD50 (rat) 7060 mg/kg

Sorbitol: Oral LD50 (rat) 15,900 mg/kg

Glycerin: Oral LD50 (Rat) 12,600 mg/kg

Specific Target Organ Systemic Toxicity (single and repeat)

Clindamycin: Ingestion of large quantities may cause adverse gastrointestinal, liver, kidney, blood and heart rhythm effects.

Propylene Glycol: In animal studies propylene glycol has been shown to cause kidney damage.

Sorbitol: Reports of adverse reactions to sorbitol are largely due to its action as an osmotic laxative when ingested orally, which may be exploited therapeutically. Ingestion of large quantities of sorbitol (> 20g/day in adults) should therefore be avoided.

Ethyl Alcohol: Chronic exposure can result in adverse liver, heart and central nervous system effects.

Serious Eye damage/Eye Irritation

Propylene Glycol: Mild eye irritation (rabbit)

Ethyl Alcohol: Causes severe eye irritation.

Glycerin: Animal studies have shown glycerin to be not irritating or slightly irritating to eyes.

Skin Corrosion/Irritation

Propylene Glycol: Mild skin irritation (human, 7d)

Ethyl alcohol: Mildly irritating.

Glycerin: Human skin tests have shown glycerin to be slightly irritating.

Respiratory or Skin Sensitization

Clindamycin: Exposure can cause allergic skin reaction in individuals hypersensitive to clindamycin and lincomycin.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

Clindamycin: Genotoxic effects of topical clindamycin were negative in the human lymphocyte chromosome aberration test and when evaluated with a rat micronucleus test and an Ames test.

Toxicity to Reproduction

Clindamycin: FDA Category: B (Studies in laboratory animals have not demonstrated a fetal risk, but there are no controlled studies in pregnant women; or animal studies have shown an adverse effect (other than a decrease in fertility), but controlled studies in pregnant women have not demonstrated a risk to the fetus in the first trimester and there is no evidence of a risk in later trimesters.)

Ethyl Alcohol: Ingestion of ethyl alcohol during pregnancy has caused adverse reproductive effects (fetal alcohol syndrome) but only at doses that are maternally toxic.



12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

This product contains ingredients that are not listed or exempted from listing on Toxic Substance Control Act Chemical Inventory.

DSL (Canadian) Listing

This product contains ingredients that are not listed or exempted from listing on the Domestic Substance List (DSL).

WHMIS Classification

D2.B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

MA Right To Know Law

This product contains the following chemicals on the Massachusetts Right to Know Law: Ethyl alcohol (64-17-5)

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Ethyl alcohol (64-17-5) - Propylene glycol (57-55-6) – Sucrose (57-50-1) - Glycerin (56-81-5)

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: Ethyl alcohol (64-17-5)

California Proposition 65

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: None

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None



16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 2

NFPA Code for Health - 2

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – 0

HMIS Ratings

HMIS Code for Flammability - 2

HMIS Code for Health - 2*

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

*chronic health hazard

Abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biological Oxygen Demand

CAS#: Chemical Abstracts Service Number

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

For further Information call: (800) 338-3659

Prepared By: EnviroNet LLC

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