

Revision date: 28-Oct-2013

Version: 4.0

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

#### **Product Identifier**

Material Name: Antirobe (Clindamycin Hydrochloride) Aquadrops

Trade Name: **Chemical Family:**  Antirobe Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Veterinary product used as antibiotic agent Intended Use: **Restrictions on Use:** Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

**Emergency telephone number:** CHEMTREC (24 hours): 1-800-424-9300 **Contact E-Mail:** VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem **Belgium** 

**Emergency telephone number:** International CHEMTREC (24 hours): +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**Appearance:** Liquid **Classification of the Substance or Mixture GHS** - Classification

> Skin Sensitization: Category 1 Flammable liquids- Category 3

### **EU Classification:**

EU Indication of danger: Flammable Irritant

EU Symbol: Xi EU Risk Phrases:

R10 - Flammable. R43 - May cause sensitization by skin contact.

### Label Elements

Signal Word:	Warning
Hazard Statements:	H226 - Flammable liquid and vapor
	H317 - May cause an allergic skin reaction

PZ00014

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Precautionary Statements:	P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking
	P233 - Keep container tightly closed
	P240 - Ground/Bond container and receiving equipment
	P241 - Use explosion-proof electrical/ventilating/lighting/equipment
	P242 - Use only non-sparking tools
	P243 - Take precautionary measures against static discharge
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
	P272 - Contaminated work clothing should not be allowed out of the workplace
	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P370 + P378 - In case of fire: Use water, dry chemical, foam or CO2 for extinction
	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothir
	Rinse skin with water/shower
	P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
	P362 - Take off contaminated clothing and wash before reuse
	P403 + P235 - Store in a well-ventilated place. Keep cool
	P501 - Dispose of contents/container in accordance with all local and national regulations





Other Hazards	
Short Term:	May cause eye and skin irritation. Not acutely toxic . (based on components) Exposure to high concentrations may cause irritation, headache, drowsiness, and symptoms of alcohol intoxication. Ingestion may result in mild gastrointestinal irritation with nausea, vomiting, or diarrhea.
Long Term:	Chronic ingestion of ethanol has been associated with an increased incidence of cancer, liver cirrhosis, and congenital malformations.
Known Clinical Effects:	Pseudomembranous colitis (manifested by watery diarrhea, urge to defecate, abdominal cramps, low-grade fever, bloody stools, and abdominal pain) may occur. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions.
Australian Hazard Classification (NOHSC):	Hazardous Substance. Non-Dangerous Goods.
Note:	This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known bazards of the product or its ingredients regardless of the

on of all known hazards of the product or its ingredients r s 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	<b>EU Classification</b>	GHS	%
		EINECS/ELINCS		Classification	
		List			
Clindamycin Hydrochloride	21462-39-5	244-398-6	Xi;R36-43	Acute Tox 5 (H303)	2 - 3
				Eye Irrit. 2A (H319)	
				Skin Sens.1 (H317)	
Ethanol	64-17-5	200-578-6	F; R11	Flam. Liq. 2 (H225)	8.64

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	Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Wat	er	7732-18-5	231-791-2	Not Listed	Not Listed	>50

Additional Information:

#### \* Proprietary

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

### For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

Description of 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.
Most Important Symptoms and Effe Symptoms and Effects of Exposure: Medical Conditions Aggravated by Exposure:	ects, Both Acute and Delayed For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. None known
Indication of the Immediate Medica Notes to Physician:	I Attention and Special Treatment Needed None

**5. FIRE-FIGHTING MEASURES** 

Extinguishing Media:	Extinguish fires with CO2, extinguishing powder, foam, or water.		
Special Hazards Arising from the Sub Hazardous Combustion Products:	estance or Mixture Formation of toxic gases is possible during heating or fire.		
Fire / Explosion Hazards:	Flammable liquid and vapor. Vapors will form flammable or explosive mixtures with air at room temperature. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.		

## Advice for Fire-Fighters

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. Eliminate all sources of ignition and ventilate area using explosion-proof equipment.

#### **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

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

Additional Consideration for<br/>Large Spills:Non-essential personnel should be evacuated from affected area. Report emergency<br/>situations immediately. Clean up operations should only be undertaken by trained personnel.

## 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Flammable Liquid. Keep away from heat, sparks, flame and all other sources of ignition. Use with adequate ventilation. 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

Storage Conditions: Storage Temperature: Specific end use(s): Keep away from heat, sparks, flame, and other sources of ignition. Store as directed by product packaging. No data available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

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

Clindamycin Hydrochloride Zoetis OEL TWA 8-hr	100µg/m³
Ethanol	
ACGIH Threshold Limit Value (STEL)	1000 ppm
Australia TWA	1000 ppm 1880 mg/m³
Austria OEL - MAKs	1000 ppm 1900 mg/m³
Belgium OEL - TWA	1000 ppm 1907 mg/m³
Bulgaria OEL - TWA	1000.0 mg/m <sup>3</sup>
Czech Republic OEL - TWA	1000 mg/m³
Denmark OEL - TWA	1000 ppm 1900 mg/m³
Estonia OEL - TWA	500 ppm 1000 mg/m³
Finland OEL - TWA	1000 ppm 1900 mg/m <sup>3</sup>

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	URE CONTROLS / PERSONAL PROTECTION		
France OEL - TWA	1000 ppm		
Gormany - TRGS 000 - TWAs	1900 mg/m <sup>3</sup> 500 ppm		
Germany - TRGS 900 - TWAs	960 mg/m <sup>3</sup>		
Germany (DFG) - MAK	500 ppm		
	960 mg/m <sup>3</sup>		
Greece OEL - TWA	1000 ppm		
	1900 mg/m <sup>3</sup> 1900 mg/m <sup>3</sup>		
Hungary OEL - TWA Latvia OEL - TWA	1000 mg/m <sup>3</sup>		
Lithuania OEL - TWA	500 ppm		
	1000 mg/m <sup>3</sup>		
Netherlands OEL - TWA	260 mg/m <sup>3</sup>		
Vietnam O EL - TWAs	1000 mg/m <sup>3</sup>		
OSHA - Final PELS - TWAs:	1000 ppm		
	1900 mg/m <sup>3</sup>		
Poland OEL - TWA Portugal OEL - TWA	1900 mg/m <sup>3</sup>		
Romania OEL - TWA	1000 ppm 1000 ppm		
	1900 mg/m <sup>3</sup>		
Slovakia OEL - TWA	500 ppm		
	960 mg/m <sup>3</sup>		
Slovenia OEL - TWA	1000 ppm 1000 mg/m <sup>3</sup>		
Spain OEL - TWA	1900 mg/m <sup>3</sup> 1000 ppm		
Span OLE - TWA	1910 mg/m <sup>3</sup>		
Sweden OEL - TWAs	500 ppm		
	1000 mg/m <sup>3</sup>		
Switzerland OEL -TWAs	500 ppm		
	960 mg/m <sup>3</sup>		
<b>E</b>			
Exposure Controls Engineering Controls:	Engineering controls should be used as the primary means to control exposures. General		
Engineering Controls.	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		
Equipment:	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		
Pospiratory protection	for bulk processing operations. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate		
Respiratory protection:	respirator with a protection factor sufficient to control exposures to below the OEL.		

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Color:	No data available.
Odor:	No data available.	Odor Threshold:	No data available.
Molecular Formula:	Mixture	Molecular Weight:	Mixture
Solvent Solubility:	No data available		
Water Solubility:	No data available		
pH:	No data available.		
Melting/Freezing Point (°C):	No data available		
Boiling Point (°C):	No data available.		
Partition Coefficient: (Method, pH, I	Endpoint, Value)		
No data available			
Decomposition Temperature (°C):	No data available.		
Evaporation Rate (Gram/s):	No data available		
Vapor Pressure (kPa):	No data available		
Vapor Density (g/ml):	No data available		
Relative Density:	No data available		
Viscosity:	No data available		
Flammablity:			
Autoignition Temperature (So	olid) (°C):	No data available	
Flammability (Solids):	,,,,,	No data available	
Flash Point (Liquid) (°C):		52	
Upper Explosive Limits (Liqu	id) (% by Vol.):	3.3	
Lower Explosive Limits (Liqu		19	
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## **10. STABILITY AND REACTIVITY**

Reactivity: Chemical Stability: Possibility of Hazardous Reactions Oxidizing Properties: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: No data available Stable under normal conditions of use.

None Keep away from heat, spark, flames and all other sources of ignition. As a precautionary measure, keep away from strong oxidizers Hazardous combustion products may include oxides of carbon and products of chlorine.

## **11. TOXICOLOGICAL INFORMATION**

Information on Toxicological Effects General Information:

The information included in this section describes the potential hazards of the individual ingredients.

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

#### **Clindamycin Hydrochloride**

Rat	Oral	LD 50	2618	mg/kg	
Rat	Sub-te	enon injec	tion (eye	e) LD 50	279mg/kg
Rat	Subcu	Itaneous	LD 50	891mg/kg	

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## **11. TOXICOLOGICAL INFORMATION**

Mouse Oral LD 50 1479mg/kg Mouse Intravenous LD 50 143mg/kg

#### Ethanol

MouseOralLD503,450g/m³RatOralLD507,060mg/kgMouseInhalationLC504h39g/m³RatInhalationLC5010h20,000ppm

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

#### **Clindamycin Hydrochloride**

Eye IrritationRatNo effectEye IrritationRabbitModerateSkin IrritationRatNo effect

### Ethanol

Eye Irritation Rabbit Severe

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

#### **Clindamycin Hydrochloride**

6 Month(s)	Rat	Oral	600 mg/kg/day	NOAEL	No effects at maximum dose
6 Month(s)	Dog	Oral	600 mg/kg/day	LOAEL	Gastrointestinal system
1 Year(s)	Rat	Oral	300 mg/kg/day	NOAEL	No effects at maximum dose
1 Month(s)	Dog	Oral	300 mg/kg/day	NOAEL	No effects at maximum dose

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

#### **Clindamycin Hydrochloride**

Reproductive & Fertility Rat Oral 300 mg/kg/day NOAEL Fertility Embryo / Fetal Development Mouse Oral 600 mg/kg/day NOAEL Not Teratogenic Embryo / Fetal Development Rat Oral 600 mg/kg/day NOAEL Not Teratogenic Embryo / Fetal Development Rat Subcutaneous 250 mg/kg/day NOAEL Not Teratogenic

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

Clindamycin Hydrochloride Bacterial Mutagenicity (Ames) Salmonella Negative In Vitro Micronucleus Negative

Carcinogen Status:

Carcinogenicity of the mixture has not been determined. Consumption of alcoholic beverages is considered carcinogenic to humans (Group 1) by IARC, though ethanol itself has not been classified by this agency. No other components are listed as carcinogens by IARC, US OSHA or NTP.

Ethanol

IARC: OSHA: Group 1 (Carcinogenic to Humans) Listed

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## **12. ECOLOGICAL INFORMATION**

Environmental Overview:

Environmental properties have not been thoroughly investigated. Releases to the environment should be avoided.

**Toxicity:** 

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

Ethanol				
Fingerling Trout NPDES LC50	24 Hours	11,200	mg/L	
Oncorhynchus mykiss (Rainbow Trout)	NPDES	LC50	96 Hours	12,900 mg/L
Pimephales promelas (Fathead Minnow	) NPDES	LC50	96 Hours	14,200 mg/L
Persistence and Degradability:	No data ava	ailable		
Bio-accumulative Potential:	No data ava	ailable		
Mobility in Soil:	No data ava	ailable		

## **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 categories of classifications unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations. Aqueous products containing alcohol at 24 percent or less are not subject to the requirements of the EU ADR, IATA, or IMDG. They are similarly exempt from US DOT requirements provided that they contain no less than 50 percent water.

## **15. REGULATORY INFORMATION**

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

### Canada - WHMIS: Classifications

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## **15. REGULATORY INFORMATION**

WHMIS hazard class: Class B, Division 3 Class D, Division 2, Subdivision B



Clindamycin Hydrochloride					
CERCLA/SARA 313 Emission reporting	Not Listed				
California Proposition 65	Not Listed				
EU EINECS/ELINCS List	244-398-6				
Ethanol					
CERCLA/SARA 313 Emission reporting	Not Listed				
California Proposition 65	carcinogen initial date 4/29/11 in alcoholic beverages developmental toxicity initial date 10/1/87 in alcoholic beverages				
Inventory - United States TSCA - Sect. 8(b)	Present				
Australia (AICS):	Present				
EU EINECS/ELINCS List	200-578-6				
Water					
CERCLA/SARA 313 Emission reporting	Not Listed				
California Proposition 65	Not Listed				
Inventory - United States TSCA - Sect. 8(b)	Present				
Australia (AICS):	Present				
<b>REACH - Annex IV - Exemptions from the</b>	Present				
obligations of Register:					
EU EINECS/ELINCS List	231-791-2				

## **16. OTHER INFORMATION**

### Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Flammable liquids-Cat.2; H225 - Highly flammable liquid and vapor Acute toxicity, oral-Cat.5; H303 - May be harmful if swallowed Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

F - Highly flammable Xi - Irritant

R11 - Highly flammable. R36 - Irritating to eyes. R43 - May cause sensitization by skin contact. **Data Sources:** The d

The data contained in this MSDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

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Reasons for Revision:	Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 9 - Physical and Chemical Properties. Updated Section 14 - Transport Information.
Prepared by:	Toxicology and Hazard Communication Zoetis Global Risk Management

Zoetis 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