



SAFETY DATA SHEET

KETOCHLOR® Medicated Shampoo (Chlorhexidine Gluconate, Ketoconazole)

1. IDENTIFICATION

Product Name	KETOCHLOR® Medicated Shampoo (Chlorhexidine Gluconate, Ketoconazole)
Recommended use of the chemical and restrictions on use	
Identified uses	Shampoo for dogs, cats and horses
Restrictions on Use	For animal use only.
Company Identification	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161 (800) 338-3659
Customer Information Number	
Emergency Telephone Number	
CHEMTREC Number	(800) 424-9300
Other Emergency Number:	Poison Control Center: 1-800-222-1222 (human) HOT LINE NUMBER: 1-800-345-4735 (human and pet)
Issue Date	April 24, 2017
Supersedes Date	This is the first issue.

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARDS IDENTIFICATION

Hazard Classification

Serious eye damage/eye irritation - Category 2A

Toxic to Reproduction - Category 1B

Specific Target Organ Toxicity (Repeated Exposure) – Category 2

Acute hazard to the aquatic environment - Category 2 (This classification not adopted by OSHA.)

Label Elements

Hazard Symbols



Signal Word: Danger

Hazard Statements

Causes serious eye irritation.

May damage fertility or the unborn child (oral exposure).

May cause damage to organs through prolonged or repeated use (oral exposure).

Toxic to aquatic life.



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2. HAZARDS IDENTIFICATION

Precautionary Statements

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear eye protection, face protection, protective clothing and protective gloves.
Wash hands thoroughly after handling.
Do not breath mist, vapors or spray.
Avoid release to the environment.

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

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local and national regulations.

Other Hazards

None

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	10 - 20%
Acute dermal toxicity	10 - 20%
Acute inhalation toxicity	30 - 40%
Acute aquatic toxicity	10 - 20%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

This product is a mixture.

Component Name	CAS Number	Concentration
Water	7732-18-5	60 - 70%
Sodium Olefin Sulfonate	68439-57-6	1 - 10%
Chlorhexidine Gluconate	18472-51-0	1 - 5%
Cocamidopropyl betaine	61789-40-0	1 - 5 %
Ketoconazole	65277-42-1	1 - 5%

4. FIRST AID MEASURES

Description of necessary 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 with soap and water. Obtain medical attention if redness or soreness persists.



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4. FIRST AID MEASURES

Ingestion

Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation

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

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards

None known

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing.

Environmental Precautions

Prevent the material from entering drains or watercourses.

Methods and materials for containment and cleaning up

Wipe up and transfer into suitable containers for recovery or disposal. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate protective clothing. Avoid contact with skin, eyes and clothing. Wash and remove contaminated clothing before reuse. Wash hands thoroughly after handling and before eating, drinking or smoking.

Conditions for safe storage

Store in original container in a cool, dry place.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Chlorhexidine Gluconate

None established

Sodium Olefin Sulfonate

None established

Cocamidopropyl Betaine

None established

Ketoconazole

None established

Appropriate engineering controls

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

Individual protection measures

Respiratory Protection

Not required under normal conditions of use.

Skin Protection

Gloves

Eye/Face Protection

Safety glasses or goggles.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

	Physical State	Liquid
	Color	Yellow/orange
Odor		Fruity
Odor Threshold		No data available
pH		No data available
Specific Gravity		No data available
Boiling Range/Point (°C/F)		No data available
Melting Point (°C/F)		No data available
Flash Point (PMCC) (°C/F)		Not flammable
Vapor Pressure		No data available
Evaporation Rate (BuAc=1)		No data available
Solubility in Water		Soluble
Vapor Density (Air = 1)		No data available
VOC		No data available
Partition coefficient (n-octanol/water)		Not applicable
Viscosity		Not applicable
Auto-ignition Temperature		No data available
Decomposition Temperature		No data available
Upper explosive limit		No data available
Lower explosive limit		No data available
Flammability (solid, gas)		No data available



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10. STABILITY AND REACTIVITY

Reactivity

Data is not available.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Heat - high temperatures

Incompatible Materials

None known.

Hazardous Decomposition Products

Oxides of carbon - oxides of nitrogen - ammonia - low molecular weight hydrocarbons - oxides of sulfur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chlorhexidine Gluconate

Oral LD50 (rat, female) 2000 mg/kg

Dermal LD50 (rabbit) >5000 mg/kg (analogous compound)

Sodium Olefin Sulfonate

Oral LD50 (rat) 1300-2400 mg/kg

Dermal LD50 (rabbit) >2000 mg/kg

Cocamidopropyl betaine

Oral LD50 (rat) 5000 mg/kg

Ketoconazole

Oral LD50 (rat) 227166 mg/kg

Specific Target Organ Toxicity (STOT) – single exposure

No relevant studies identified.

Specific Target Organ Toxicity (STOT) – repeat exposure

Ketoconazole: When used orally, ketoconazole has been associated with hepatic toxicity. Adverse effects to the endocrine system have been reported in humans being treated with ketoconazole.

Serious Eye damage/Irritation

Chlorhexidine Gluconate: Causes serious eye damage.

Surfactant: Severely irritating (7 days, Draize, rabbit, 10% suspension)

Sodium Olefin Sulfonate: Causes serious eye irritation. (40% solution)

Cocamidopropyl betaine: Causes moderate eye irritation.

Skin Corrosion/Irritation

Available data indicates this product is not expected to cause skin irritation.



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11. TOXICOLOGICAL INFORMATION

Respiratory or Skin Sensitization

Sodium Olefin Sulfonate: Not a dermal sensitizer (Dermal Sensitization)

Cocamidopropyl betaine: No evidence of delayed contact hypersensitivity (guinea pig- Delayed Contact Sensitization Study) or sensitization (Human Patch Test)

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

Available data indicates this product is is not expected to be mutagenic.

Reproductive Toxicity

Ketoconazole: In high dose animal oral reproductive and developmental toxicity studies, ketoconazole was evaluated as teratogenic and embryotoxic. This reproductive toxicity was at doses not relevant to topical use of this drug. There are no adequate and well-controlled studies in pregnant women.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chlorhexidine Gluconate

LC50 fish 2.08 mg/l 96h

EC50 daphnia magna 0.048 mg/l 48h

ErC50 algae 0.081 mg/l 72h

Sodium Olefin Sulfonate

LC50 fish 2.50 mg/l 96h

EC50 daphnia 4.48 mg/l 48h

EC50 algae 45 mg/l 72h

Ketoconazole

EC50 algae 0.99 mg/l 96h

Aquatic Chronic - Category 1, Very toxic to aquatic life with long lasting effects (ECHA classification)

Cocamidopropyl betaine

LC50 fish 0.7 mg/l 96h

EC50 crustacea 1.9 mg/l 48h

Mobility in soil

No relevant studies identified.

Persistence/Degradability

Sodium Olefin Sulfonate: Readily biodegradable

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

No relevant studies identified.



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13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

United States TSCA Inventory

This product is excluded from the US EPA Toxic Substance Control Act and is regulated under the Food, Drug and Cosmetic Act.

California Proposition 65

This product does not contain any Proposition 65 chemicals at levels which would require warning labels as known to the State of California to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 311/312 Categorization

Eye irritation – Reproductive toxicity – Specific target organ toxicity (repeated exposure)

SARA Title III Sect. 313

The following chemicals are listed in Section 313 at or above de minimis concentrations: None.

16. OTHER INFORMATION

Legend

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

Revision Date: April 24, 2017

Replaces: This is the first issue.

Changes made: Not applicable

Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.



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16. OTHER INFORMATION

Prepared By: EnviroNet LLC.

KETOCHLOR is a registered trademark of Virbac AH, Inc.

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