MATERIAL SAFETY DATA SHEET
CORTISOOTHE® Shampoo
Product Codes: 001608 and 001616

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

Product Name	CORTISOOTHE® Shampoo
Product Description	Shampoo for dogs, cats, and horses
Manufacturer/Supplier	Virbac AH, Inc.
Address	P.O. Box 162059
	Fort Worth, Texas 76161
Phone Number	(800) 338-3659 for Technical Support
Chemtrec Number (24 hour)	(800) 424-9300
Emergency Number:	(800) 338-3659 for Human and Animal Medical Emergencies
MSDS Revision Date:	March 3, 2011
Supersedes MSDS Dated:	March 3, 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 and skin.
Harmful if swallowed.
Keep out of reach of children.
Read entire label before each use.

Routes of Entry
Eye contact - Skin contact - Ingestion - Inhalation - Absorption

Carcinogenic Status
Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs
Eyes - Skin - Respiratory System (See Section 11)

Health Effects - Eyes
Contact with eyes can cause irritation.

Health Effects - Skin
Contact with skin can cause irritation.

Health Effects - Ingestion
Harmful if swallowed. Ingestion of this material may cause gastrointestinal effects such as nausea, vomiting, diarrhea, abdominal cramps and constipation.

Health Effects - Inhalation
No adverse effects are expected during normal conditions of use. Prolonged, repeated inhalation may cause irritation to the respiratory tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Sodium Olefin Sulfonate	68439-57-6	10 - 20%
Lactic Acid	79-33-4	0.1 - <1%
Cocamidopropyl betaine	61789-40-0	1 - 5 %
Hydrocortisone	50-23-7	~1%

4. FIRST AID MEASURES

Eyes
Immediately flood the eye with plenty of water for at least 15-20 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin
If irritation develops wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

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.

Advice to Physicians
Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media
Use extinguishing media appropriate for surrounding materials.

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

7. HANDLING AND STORAGE

Store in original container in a cool, dry place. Store away from children and pets. Do not store near foodstuffs. Do not contaminate water, food or feed by storage. Wear appropriate protective clothing. Avoid contact with skin, eyes and clothing. Wash and remove contaminated clothing before reuse. Avoid breathing vapors. Wash hands thoroughly after handling and before eating, drinking or smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards
Exposure limits are listed below, if they exist.
Sodium Olefin Sulfonate
None established
Hydrocortisone
None established
Cocamidopropyl Betaine
None established
Lactic Acid
None established
Engineering Control Measures
No specific measures necessary. Good general room ventilation is expected to be adequate to control

airborne levels.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection
Not required under normal conditions of use. Professional groomers and those with repeated and extended exposures should consider the use of respiratory protection if there is a risk of exposure to high vapor concentrations or aerosols. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.
Hand Protection
Elbow length chemical resistant gloves.
Eye Protection
Safety glasses or goggles.
Body Protection
Waterproof apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Tan
Odor	Fruity
pH	No data available
Specific Gravity	1.05
Boiling Range/Point (°C/F)	No data available
Melting Point (°C/F)	No data available
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	No data available
Vapor Pressure	No data available
Density	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	No data available

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.
Conditions to Avoid
Heat - high temperatures
Materials to Avoid
Strong oxidizers
Hazardous Polymerization
Will not occur.
Hazardous Decomposition Products
Oxides of carbon – oxides of sulfur – nitrogen – ammonia – low molecular weight hydrocarbons

11. TOXICOLOGICAL INFORMATION

See product packaging for additional information.
Acute Toxicity
Lactic acid: LD50 Rat oral 3730 mg/kg, LC50 Rat inhalation 7.94 mg/L/4 hr
Sodium Olefin Sulfonate: Oral LD50 (rat) 1300-2400 mg/kg, Dermal LD50 (rabbit) 1130-2150 mg/kg
Cocamidopropyl betaine: Oral LD50 (rat) 5000 mg/kg

11. TOXICOLOGICAL INFORMATION

Specific Target Organ Systemic Toxicity (single and repeat)
Cocamidopropyl betaine: 28 day Subchronic Toxicity Study (rat) (doses: 100, 500, 1000 mg/kg): No adverse effects observed at 100 mg/kg
Serious Eye damage/Eye Irritation
Lactic acid: Severe eye irritation (rabbit - Draize Test)
Sodium Olefin Sulfonate: Causes moderate eye irritation at 10% active and no irritation at 1% active (Primary Eye Irritation- rabbit 24 hr)
Cocamidopropyl betaine: Causes moderate eye (Primary Eye Irritation - rabbit)
Skin Corrosion/Irritation
Lactic acid: Skin irritant (rabbit 24 h Draize Test)
Sodium Olefin Sulfonate: Causes moderate skin irritation at 10% (Primary Skin Irritation - rabbit 24hr), Slight Skin irritation at 1% active (Primary Irritation Patch Test - human)
Cocamidopropyl betaine: Causes mild skin irritation (Primary Skin Irritation - rabbit)
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
Sodium Olefin Sulfonate: No increased incidences of tumors in rats fed up to 500ppm (rat)
Cocamidopropyl betaine: Not a carcinogen (Carcinogenicity Study- dermal - mice -20 months)
Germ Cell Mutagenicity
Lactic acid: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Hydrocortisone was negative for gene mutation in Salmonella typhimurium (with and without activation) and for unscheduled DNA synthesis in rat hepatocytes. It was positive for chromosomal aberrations in human lymphocytes and for sister chromatid exchange in mouse bone marrow.
Sodium Olefin Sulfonate: Not mutagenic (Ames test)
Cocamidopropyl betaine: Not mutagenic (Ames test and Mouse Micronuclear Assay)
Toxicity to Reproduction
Lactic acid: A reproductive toxicity study in mice (oral) showed maternal effects and developmental abnormalities to the fetal musculoskeletal system.
Hydrocortisone: Animal studies with some corticosteroids have shown cleft palate and inhibited fetal growth. Most studies have concluded that therapeutic use of corticosteroids by pregnant women does not cause adverse effects on the fetus. Small increase in cleft palate was seen in some human studies. Infants born to mothers who received substantial doses of corticosteroids during pregnancy should be observed for signs of hypoadrenalism.
Sodium Olefin Sulfonate: No reproductive or developmental effects were observed at doses that show no or slight maternal toxicity (up to 2 mg/kg)

12. ECOLOGICAL INFORMATION

Mobility
No relevant studies identified.
Persistence/Degradability
Sodium Olefin Sulfonate: Readily biodegradable
Bio-accumulation
No relevant studies identified.
Ecotoxicity
Lactic Acid: EC50 Daphnia magna 180 - 320 mg/l 48 h
Sodium Olefin Sulfonate: LC50 Fish 1-10 mg/l

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 listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance (TSCA) Inventory.

DSL (Canadian) Listing
This product contains ingredients that are not listed on the Domestic Substance List (DSL).

WHMIS Classification
D.2.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: Trisodium nitrilotriacetate (5064-31-3) <0.001%

PA Right To Know Law
This product contains the following chemicals on the Pennsylvania Hazardous Substance List: None

NJ Right To Know Law
This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: None

California Proposition 65
This product contains chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 311/312 Categorization
Immediate (acute)

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 - 0
NFPA Code for Health - 1
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards – 0

HMIS Ratings
HMIS Code for Flammability - 0
HMIS Code for Health - 1
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

16. OTHER INFORMATION

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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