



MATERIAL SAFETY DATA SHEET
DERMAZOLE™ Medicated Shampoo
Product Codes: 001008 & 001016

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

Product Name DERMAZOLE™ Medicated 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 1, 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.
Avoid breathing vapors.
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 - Central Nervous System - Liver - Kidney - Reproductive System - Blood

Health Effects - Eyes

Contact with eyes can cause severe irritation.

Health Effects - Skin

Contact with skin can cause irritation and skin sensitization.

Health Effects - Ingestion

Harmful if swallowed. Ingestion of this material may cause gastrointestinal effects such as nausea, vomiting and diarrhea. Prolonged, repeated ingestion can cause adverse effects to the central nervous system, kidneys, liver, blood and reproductive system.

Health Effects - Inhalation

No adverse effects are expected during normal conditions of use. Prolonged, repeated inhalation may cause irritation or nose, throat and respiratory tract. Prolonged, repeated exposure may cause adverse effects to the central nervous system, kidneys, liver, blood and reproductive system.



3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component Name | CAS Number | Concentration |
|-------------------------|-------------------|----------------------|
| Salicylic Acid | 69-72-7 | ~2% |
| Sodium Olefin Sulfonate | 68439-57-6 | 10 - 20% |
| Surfactant(s) | N/A | 1 - 5% |
| Triethanolamine | 102-71-6 | 1 - 5% |
| Cocamidopropyl betaine | 61789-40-0 | 1 - 5 % |
| Miconazole Nitrate | 22832-87-7 | ~2% |
| DMDM Hydantoin | 6440-58-0 | 0.1-<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 eyes. Wash hands thoroughly after handling and before eating, drinking or smoking. Store at room temperature between 59°F and 86°F.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Salicylic Acid

None established

Surfactant(s)

None established

Sodium Olefin Sulfonate

None established

Cocamidopropyl Betaine

None established

Triethanolamine

ACGIH: TLV 5 mg/m³ 8h TWA

DMDM Hydantoin

None established

Miconazole Nitrate

None established

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. 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. 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 | White |
| Odor | Floral |
| pH | No data available |
| Specific Gravity | 1.025 |
| 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 - acids - bases - inorganic acid chlorides

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon – oxides of nitrogen – hydrogen chloride gas – phenol – ammonia – low molecular weight hydrocarbons – oxides of sulfur

11. TOXICOLOGICAL INFORMATION

See product packaging for additional information.

Acute Toxicity

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

DMDM Hydantoin: Oral LD50 (rats) 2000-5000 mg/kg

Salicylic acid: Oral LD50 (rat) 891 mg/kg, Dermal LD50 (rabbit) >10,000 mg/kg,
Inhalation LC50 >900 mg/m³ (rat)

Triethanolamine: Oral LD50 (rat) >5000 mg/kg, Dermal LD50 (rabbit) >2000 mg/kg

Miconazole Nitrate: Oral LD50 (rat) 640 mg/kg

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

Salicylic acid: Chronic exposure may cause adverse effects to the central nervous system, lungs, kidneys and liver. Skin absorption of salicylic acid may enhance the symptoms of ingestion.

Triethanolamine: In animal feeding studies effects were reported on the liver and kidneys.

Miconazole Nitrate: May affect the central nervous system (drowsiness and headache). Prolonged or repeated ingestion may cause changes in blood cell count.

Serious Eye damage/Eye Irritation

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

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)

Salicylic acid: Severe eye irritant (rabbit)

Triethanolamine: non-irritating

Skin Corrosion/Irritation

Surfactant: Moderately irritating (72h, Draize, rabbit, 10% suspension)

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)

Salicylic acid: Slightly irritating (rabbit)

Triethanolamine: non-irritating

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)

Salicylic acid: May cause allergic reactions in people with aspirin sensitivities and asthma.

Miconazole Nitrate: Local sensitivity reactions have been reported in humans.



11. TOXICOLOGICAL INFORMATION

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

Sodium Olefin Sulfonate: Not mutagenic (Ames test)
Cocamidopropyl betaine: Not mutagenic (Ames test and Mouse Micronuclear Assay)
DMDM Hydantoin: Both positive and negative mutagenicity results in laboratory studies.
Salicylic acid: Not mutagenic in laboratory studies.

Toxicity to Reproduction

Sodium Olefin Sulfonate: No reproductive or developmental effects were observed at doses that show no or slight maternal toxicity (up to 2 mg/kg)
Salicylic acid: Based on animal feeding studies, may cause reproductive and developmental abnormalities.
Miconazole Nitrate: May cause adverse reproductive effects based on animal data (oral doses). The relevance to humans is unknown.
Triethanolamine: Experimental studies in animals have provided evidence of embryo/fetotoxicity with unknown relevance to humans. Typical use of this material in a workplace environment is not expected to result in fetal toxic effects.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

Salicylic acid: Readily biodegradable

Bio-accumulation

No relevant studies identified.

Ecotoxicity

Salicylic acid: EC50 fresh water algae 100 mg/l 72 hr, EC50 Daphnia 180 mg/l 24hr

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 an ingredient that is not listed on the EPA Toxic Substance Control Act Chemical Substance (TSCA) Inventory.

DSL (Canadian) Listing

This product contains ingredients that have not been verified for listing on the Domestic Substance List (DSL).

WHMIS Classification

D.2.A

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.



15. REGULATORY INFORMATION

MA Right To Know Law

This product contains the following chemicals on the Massachusetts Right to Know Law:
Triethanolamine (102-71-6)

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List:
Triethanolamine (102-71-6)

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 the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Acrylamide (79-06-1) trace – Formaldehyde (50-00-0) trace

SARA Title III Sect. 311/312 Categorization

Immediate (acute) Delayed (chronic)

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

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



16. OTHER INFORMATION

For further Information call: (800) 338-3659

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