



MATERIAL SAFETY DATA SHEET
OTOMITE PLUS® Ear Miticide
Product Code: 601712

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

Product Name OTOMITE PLUS® Ear Miticide
Product Description Ear mite treatment for dogs, cats, puppies and kittens
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 2, 2011
Supersedes MSDS Dated: September 24, 2010

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.
Ingestion may cause adverse gastrointestinal effects.
Keep out of reach of children.
Read entire label before each use.

Routes of Entry

Eye contact - Skin contact - Ingestion - Inhalation

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

Eyes - Skin - Respiratory System

Health Effects - Eyes

Contact with eyes may cause slight irritation.

Health Effects - Skin

Repeated, prolonged contact with skin may cause irritation and skin sensitization.

Health Effects - Ingestion

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 adverse health effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Pyrethins	8003-34-7	0.15%
Piperonyl Butoxide	51-03-6	1.50%
N-octyl bicycloheptene dicarboximide	113-48-4	0.50%



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 equipment. 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.

Pyrethins

ACGIH: TLV 5 mg/m³ 8h TWA

OSHA: PEL 5 mg/m³ 8h TWA

Piperonyl Butoxide

None established

N-octyl bicycloheptene dicarboximide

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

Chemical resistant gloves.

Eye Protection

Safety glasses or goggles.

Body Protection

Apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Yellow
Odor	Odorless
pH	No data available
Specific Gravity	0.86 - 0.87
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	Insoluble
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 - hydrocarbons

11. TOXICOLOGICAL INFORMATION

See product insert and/or packaging for additional information.

Acute Toxicity

Pyrethrins: Oral LD50 (rat, male) 470 mg/kg, LD50 (rabbit) >5000 mg/kg

Piperonyl Butoxide: Oral LD50 (rat, male) 4570 mg/kg Dermal LD50 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) >5.9 mg/l

N-octyl bicycloheptene dicarboximide: Oral LD50 (rat) 5000 mg/kg Dermal LD50 (rabbit) >2000 mg/kg



11. TOXICOLOGICAL INFORMATION

Specific Target Organ Systemic Toxicity (single and repeat)

Pyrethrins: In laboratory animal studies has shown adverse nervous system, thyroid and liver effects. Following inhalation exposure, neurobehavioral effects we observed initially and respiratory tract lesions were observed at all dose levels.

Piperonyl Butoxide: In subchronic inhalation toxicity studies in rats adverse effects to the respiratory system were observed.

N-octyl bicycloheptene dicarboximide: In inhalation exposure in laboratory animals adverse effects to the respiratory tract have been observed.

Serious Eye damage/Eye Irritation

Piperonyl Butoxide: Minimally irritating.

Skin Corrosion/Irritation

Pyrethrins: Mild skin irritant.

Respiratory or Skin Sensitization

N-octyl bicycloheptene dicarboximide: Positive results for dermal sensitization in guinea pigs.

Pyrethrins: Not a dermal sensitizer (EPA report).

Carcinogenicity

Piperonyl Butoxide: EPA Classification: Group C-possible human carcinogen with no cancer quantification

Germ Cell Mutagenicity

N-octyl bicycloheptene dicarboximide: Negative in the CHO chromosome aberration

Toxicity to Reproduction

No relevant studies identified.

12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

Pyrethrins: LC50 Bluegill 58 ug/l 96 h

Piperonyl Butoxide: LC50 Rainbow trout 3.4 ug/l 96 h

13. DISPOSAL CONSIDERATIONS

Product Disposal:

Do not contaminate water, food or feed by disposal. Never place any unused product down an indoor or outdoor drain. Call your local solid waste agency or 1-800-CLEANUP for disposal instructions

Container Disposal:

Dispose of empty container in a sanitary landfill. Place in trash or offer for recycling, if available. Do not reuse container.



14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated
UN Proper Shipping Name	Not Regulated
UN Class	None.
UN Number	None.
UN Packaging Group	None.
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.

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

All ingredients in this product have been verified for listing 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: Ethyl Alcohol (64-17-5) - Pyrethrins (8003-34-7) - Piperonyl Butoxide (51-03-6)

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Pyrethrins (8003-34-7)

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: Pyrethrins (8003-34-7) - Piperonyl Butoxide (51-03-6)

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)

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: Piperonyl Butoxide (51-03-6)

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 - 2

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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