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**1. IDENTIFICATION**

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<b>Product Name</b>	Otomite Plus® Ear Miticide
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Ear mite treatment for dogs, cats, puppies and kittens
<b>Restrictions on Use</b>	Available through licensed veterinarians only. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
<b>Company Identification</b>	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161 (800) 338-3659
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>Chemtrec Number</b>	(800) 424-9300
<b>Other Emergency Number:</b>	Human Toll-free 833-224-2009 Animal Toll-free 833-224-2013
<b>Issue Date</b>	March 5, 2020
<b>Supersedes Date</b>	September 24, 2015

*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)*

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**2. HAZARD IDENTIFICATION**

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

**Label Elements**  
Hazard Symbols  
None

Signal Word: None

**Hazard Statements**  
Toxic to aquatic life.

**Precautionary Statements**  
**Prevention**  
Avoid release to the environment.  
**Response**  
None  
**Storage**  
None  
**Disposal**  
Dispose of contents/container in accordance with local regulation.

**Other Hazards**  
See Section 15 for FIFRA label elements.



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**2. HAZARD IDENTIFICATION**

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**Specific Concentration Limits**

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

Acute oral toxicity	<10%
Acute dermal toxicity	<10%
Acute inhalation toxicity	>90%
Acute aquatic toxicity	>90%

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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**Synonyms:**

This product is a mixture.

<b>Component Name</b>	<b>CAS Number</b>	<b>Concentration</b>
Light Mineral Oil	8042-47-5	60-70%
Vegetable Oil	8001-25-0	20-30%
Piperonyl Butoxide	51-03-6	1.50%
N-octyl bicycloheptene dicarboximide	113-48-4	0.48%
Pyrethrins	8003-34-7	0.15%

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**4. FIRST-AID MEASURES**

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**Description of necessary first-aid measures**

**Eyes**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for treatment advice.

**Skin**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**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.



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**5. FIRE-FIGHTING MEASURES**

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**Extinguishing Media**

Water spray, carbon dioxide and dry chemical. 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.

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**6. ACCIDENTAL RELEASE MEASURES**

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**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**

Contain and transfer into suitable containers for recovery or disposal.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Wash hands thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Conditions for safe storage**

Store in tightly closed original container in a cool, dry, locked place. Keep away from children and pets.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist.

**Pyrethins**

ACGIH: TLV 5 mg/m<sup>3</sup> 8h TWA

OSHA: PEL 5 mg/m<sup>3</sup> 8h TWA

**Light Mineral Oil as Oil Mist, Mineral**

ACGIH: TLV 5 mg/m<sup>3</sup> 8h, STEL 10 mg/m<sup>3</sup>

OSHA: PEL 5 mg/m<sup>3</sup> 8h TWA

**Vegetable oil as Vegetable Oil Mist**

OSHA: PEL 15 mg/m<sup>3</sup> 8h TWA, total dust

5 mg/m<sup>3</sup> 8h TWA, respirable fraction



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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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**

Chemical resistant gloves.

**Eye/Face Protection**

Safety glasses or goggles.

**Body Protection**

Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

<b>Physical State</b>	Liquid
<b>Color</b>	Yellow
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Specific Gravity</b>	0.86 - 0.87
<b>Boiling Range/Point (°C/F)</b>	Not applicable
<b>Melting Point (°C/F)</b>	Not applicable
<b>Flash Point (PMCC) (°C/F)</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable
<b>Evaporation Rate (BuAc=1)</b>	Not applicable
<b>Solubility in Water</b>	Insoluble
<b>Vapor Density (Air = 1)</b>	Not applicable
<b>VOC</b>	Not applicable
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Upper explosive limit</b>	No data available
<b>Lower explosive limit</b>	No data available
<b>Flammability (solid, gas)</b>	No data available

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**10. STABILITY AND REACTIVITY**

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**Reactivity**

Data is not available

**Chemical Stability**

Stable under normal conditions.



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**10. STABILITY AND REACTIVITY**

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**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 – hydrocarbons

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**11. TOXICOLOGICAL INFORMATION**

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**See product insert and/or packaging for additional information.**

**Acute Toxicity**

Pyrethrins

Oral LD50 (rat, male) 1400 mg/kg,

Dermal LD50 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) >3.4 mg/l

Piperonyl Butoxide

Oral LD50 (rat) 5630 mg/kg

Dermal LD50 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) >5.9 mg/l

N-octyl bicycloheptene dicarboximide

Dermal LD50 (rabbit) >2000 mg/kg

**Specific Target Organ Toxicity (STOT) – single exposure**

No data available.

**Specific Target Organ Toxicity (STOT) – repeat exposure**

Pyrethrins: In laboratory animal studies has shown adverse nervous system, thyroid and liver effects.

Following inhalation exposure, neurobehavioral effects were observed initially and respiratory tract lesions were observed at all dose levels. (EPA)

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

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

**Serious Eye damage/Irritation**

Piperonyl Butoxide: Not irritating in rabbit study (ECHA)

**Skin Corrosion/Irritation**

Piperonyl Butoxide: Not irritating in rabbit study (ECHA)

**Respiratory or Skin Sensitization**

Piperonyl Butoxide: Both positive and negative test results have been reported for skin sensitization.

N-octyl bicycloheptene dicarboximide: Dermal sensitization testing was positive (guinea pig). (Supplier SDS)

Pyrethrins: Not a dermal sensitizer (EPA report).



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**11. TOXICOLOGICAL INFORMATION**

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**Carcinogenicity**

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

N-octyl bicycloheptene dicarboximide: EPA Classification: Group C-possible human carcinogen with no cancer quantification

Pyrethrins: Classified by EPA as "Suggestive Evidence of Carcinogenicity, but Not Sufficient to Assess Human Carcinogenic Potential" with no cancer quantification

**Germ Cell Mutagenicity**

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

**Reproductive Toxicity**

N-octyl bicycloheptene dicarboximide The rat and rabbit developmental toxicity studies did not demonstrate developmental toxicity. There were no effects on the reproductive performance of either males or females in the multi-generation reproduction study. (EPA)

**Aspiration Hazard**

Not an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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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.

**Ecotoxicity**

Pyrethrins: LC50 Bluegill 58 ug/l 96 h

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

**Mobility in soil**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bioaccumulative Potential**

No relevant studies identified.

**Other adverse effects**

No relevant studies identified.

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**13. DISPOSAL CONSIDERATIONS**

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**Product Disposal:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Container Disposal:** Non refillable container. Do not reuse or refill this container. If empty place in trash or offer for recycling if available.

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**14. TRANSPORT INFORMATION**

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Contact supplier for transport information.



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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

This product is excluded from TSCA as it regulated under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

**Federal Insecticide, Fungicide, and Rodenticide Act**

This is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

Front Panel:

KEEP OUT OF THE REACH OF CHILDREN

**CAUTION**

Side/Back Panel:

**READ ENTIRE LABEL BEFORE EACH USE**

**USE ONLY ON DOGS AND CATS**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

**HAZARDS TO HUMANS:** Harmful if absorbed through the skin. Avoid contact with skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contamination of feed and foodstuffs.

User Safety Recommendations:

Users should wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

User Safety Recommendations:

Users should wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to aquatic organisms, including fish and invertebrates. Do not contaminate water when disposing of equipment, washwater or rinsate. See Directions for Use and additional precautions and requirements.

**Canada DSL Inventory**

This product is excluded from DSL listing as it is regulated under the Pest Control Products Act when used as a pesticide.

**SARA Title III Sect. 311/312 Categorization**

None

**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)



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**16. OTHER INFORMATION**

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists  
BOD: Biological Oxygen Demand  
CAS#: Chemical Abstracts Service Number  
DSL: Domestic Substances List  
ECHA: European Chemicals Agency  
EPA: Environmental Protection Agency  
FIFRA: Federal Insecticide, Fungicide and Rodenticide Act  
HDT: Highest Dose Tested  
HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer  
LC50: Lethal Concentration 50%  
LD50: Lethal Dose 50%  
LOEL: Lowest Observed Effect Level  
N/A: Denotes no applicable information found or available  
NFPA: National Fire Protection Association  
NOEL: No Observed Effect Level  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
TSCA: Toxic Substances Control Act  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
WHMIS: Workplace Hazardous Materials Information System  
TLV: Threshold Limit Value  
TSCA: Toxic Substance Control Act

Revision Date: March 5, 2020

Replaces: September 24, 2015

Changes made: Update to emergency numbers and section 15.

**Information Source and References**

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

**Prepared By:** EnviroNet LLC.

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