



MATERIAL SAFETY DATA SHEET
VIRBAC PYRETHRIN DIP™ Anti-Parasitic
Product Codes: 604904 & 604910

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

Product Name VIRBAC PYRETHRIN DIP™ Anti-Parasitic
Product Description Insect repellent concentrate 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 1, 2011
MSDS Supersedes Date: October 13, 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, skin and clothing.
Harmful if swallowed.
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. See Section 11.

Target Organs

Eyes - Skin - Respiratory System - Central Nervous System - Kidneys - Liver

Health Effects - Eyes

Contact with eyes can cause substantial but temporary eye injury.

Health Effects - Skin

Contact with skin may cause irritation and skin sensitization. Repeated, prolonged contact may cause adverse effects to the central nervous system, liver and kidneys.

Health Effects - Ingestion

Harmful if swallowed. Ingestion of this material may cause gastrointestinal effects such as nausea, vomiting, diarrhea, abdominal cramps and constipation. Ingestion of large quantities may cause adverse effects to the central nervous system, liver and kidneys.

Health Effects - Inhalation

No adverse effects expected under normal conditions of use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Pyrethins	8003-34-7	1.0%
Piperonyl Butoxide	51-03-6	4.00%
N-octyl bicycloheptene dicarboximide	113-48-4	6.00%



3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Di-n-propyl isocinchomeronate	136-45-8	4.00%
Isopropyl Alcohol	67-63-0	1 - 10%
Isoparaffinic Petroleum Solvent	64742-47-8	1 - 5%

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

No adverse effects expected under normal conditions of use.

Advice to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards

Combustible.

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. Protect from freezing. 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 hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE immediately if pesticides get inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

Do not use or store near heat or open flame.



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

Isopropyl Alcohol

ACGIH: 200ppm 8h TWA 400 ppm 15-min STEL

OSHA: PEL 400ppm (980 mg/m³) 8h TWA

Di-n-propyl isocinchomeronate

None established

Isoparaffinic Petroleum Solvent

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.

Hand Protection

Chemical-resistant gloves made of any waterproof material.

Eye Protection

Wear protective eyewear (face shield or goggles).

Body Protection

Long sleeve shirt, long pants, shoes and socks.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	White
Odor	Floral
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
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

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon – oxides of nitrogen

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

Di-n-propyl isocinchomeronate: Oral LD50 (rat) 5120 mg/kg Dermal LD50 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) >6.09 mg/l

Isopropyl Alcohol: Oral LD50 (rat) 5045 mg/kg

Specific Target Organ Systemic Toxicity (single and repeat)

Isopropyl Alcohol: Causes adverse central nervous system effects.

Isoparaffinic Petroleum Solvent: Repeated, prolonged exposure may cause damage to the kidneys, liver and central nervous system.

The following is provided for informational purposes. Inhalation exposure is not expected under normal conditions of use.

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

Isopropyl Alcohol: Causes eye irritation.

Piperonyl Butoxide: Minimally irritating.

Skin Corrosion/Irritation

Pyrethrins: Mild skin irritant.

Di-n-propyl isocinchomeronate: Moderately irritating to the skin.

Isoparaffinic Petroleum Solvent: Repeated or prolonged skin contact can cause moderate irritation.

Respiratory or Skin Sensitization

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

Di-n-propyl isocinchomeronate: Negative 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

Di-n-propyl isocinchomeronate: EPA classification B2: Probable human carcinogen



11. TOXICOLOGICAL INFORMATION

Germ Cell Mutagenicity

Di-n-propyl isocinchomeronate: No evidence of mutagenicity was noted with or without metabolic activation.

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

Toxicity to Reproduction

Isopropyl alcohol: Developmental effects seen only at maternally toxic doses.

12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. 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

Di-n-propyl isocinchomeronate: LC50 Rainbow trout 1.0 mg/l, EC50 daphnia magna 18mg/l 48 hr

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 for disposal instructions

Container Disposal:

Nonrefillable container. Do not reuse or refill container. Offer for recycling, if available.

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

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



15. REGULATORY INFORMATION

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: Isopropyl Alcohol (67-63-0) - Pyrethrins (8003-34-7) - Piperonyl Butoxide (51-03-6) - Trisodium Nitrotriacetate (5064-31-30) trace

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Isopropyl Alcohol (67-63-0) - Pyrethrins (8003-34-7)

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: Isopropyl Alcohol (67-63-0)- 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: Di-n-propyl isocinchomeronate (136-45-8)

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: Piperonyl Butoxide (51-03-6) - Di-n-propyl isocinchomeronate (136-45-8)

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

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
Prepared By: EnviroNet LLC

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