

Material Safety Data Sheet (MSDS)

Section 1 Product Identification and uses

Product Name: Anti-Bark spray collar (code: 24834 11122)
Virtual Barrier (code: 24834 14014)
Virtual Fence (code: 24834 13009)
Citronella Refill (code: 24834 11202)

Chemical Family: Hydrocarbon

Supplier: Multivet International inc. 17420, rue Centrale, P.O. Box 651, St-Hyacinthe, Québec, Canada, J2T 3L7 Phone: 450-778-0244.

Manufacturer: Manufactured for: Multivet International inc.

Material Uses: Prevents dogs from barking

Section 2 Hazardous Ingredients

Name	CAS #	% by Weight	LC50 / LD50
1) Ethanol	64-17-5	2-8	ORAL (LD50) mg/kg: Acute: 7060 (Rat.). DERMAL (LD50) mg/kg: Acute: 20000 (Rabbit). VAPOR (LC50) ppm: Acute: 8000 (Rat.) (4 hour(s)).
2) 1,1,1,2-Tetrafluoroethane	811-97-2	60-100	

Section 3 Physical Data

Physical State and appearance: Liquid (Aerosol Concentrate).

Color: Clear Colorless.

Boiling Point: 78.5°C (173.3°F)

Density: 0.791 (Water = 1)

Vapor Density: 1.59 (Air = 1) based on data for: Ethanol

Solubility: Soluble in water, methanol, diethyl ether.

Section 4 Fire and Explosion Data

The Product is: Non-flammable Aerosol

Products of Combustion: These products are carbon oxides (CO, CO₂) and hydrogen fluoride.

Extinguishing Media: Cool containing vessels with water spray in order to prevent pressure build-up, auto ignition or explosion. Avoid spreading burning liquid with water used to cool containers. Self-contained respiratory protection should be provided for firefighters.

Flammability: The flammability of an aerosol by WHMIS definition is determined by its flame-extension or its flashback,. The flame-extension of this product is 0 cm. FIRE CODE: Level 1 Aerosol (as per NFPA 30B).

Risks of Explosion: Risks of explosion of the product in presence of mechanical impact: Do NOT subject aerosol cans to impact. Risks of explosion of the product in presence of static discharge: Not available. Container may explode if heated.

Section 5 Reactivity

Stability: The product is stable.

Hazardous Decomposition Products: These products are carbon oxides (CO, CO₂) and hydrogen fluoride.

Corrosivity: Non-corrosive in presence of glass.

Reactivity: Slightly reactive to reactive with oxidizing agents, metals, alkalis.

Section 6 Toxicological Properties

Routes of entry: Ingestion. Inhalation.

TLV: **Ethanol**
TWA: 1000 (ppm) from ACGIH

1,1,1,2-Tetrafluoroethane

TWA: 1000 (ppm)

TWA: 4240 (mg/m³)

Consult local authorities for acceptable exposure limits.

Toxicity to animals: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): > 5000 mg/kg (Rat.) (Ethanol).

Acute dermal toxicity (LD50): > 5000 mg/kg (Rabbit) (Ethanol).

Acute toxicity of the vapor (LC50): > 5000 ppm (Rat.) (Ethanol).

Acute toxicity of the gas (LC50): > 5000 ppm (1,1,1,2-Tetrafluoroethane).

Prolonged or repeated skin contact may lead to dermatitis.

Chronic Effects

on Humans :

Acute Effects on Humans :

EYE CONTACT: May cause irritation, redness and tearing.

SKIN CONTACT: May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis.

INHALATION: Excessive inhalation of vapors may cause nasal and respiratory irritation.

INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

This product may irritate eyes and skin upon contact.

Section 7 Preventive Measures

Small Spill and Leak: Absorb with an inert DRY material and place in an appropriate waste disposal container.

Personal Protective Equipment: Avoid contact with eyes.

Engineering Controls: Use under well-ventilated conditions.

Precautions: Contents under pressure. Container may explode if heated. Keep out of reach of children.

Storage: Store in a cool, dry place. Do not place in hot water or near radiators, stoves or other sources of heat. Do not puncture, incinerate or store the container at temperatures over 50°C or in direct sunlight.

Handling: Avoid breathing spray mists. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with eyes. Avoid prolonged contact with skin. After handling, always wash hands thoroughly with soap and water.

Waste Disposal: Recycle to process, if possible. Consult your local or regional authorities. Do not dispose in sewers. When container is empty, press button to release all pressure, then dispose of in garbage can.

Section 8 First Aid

Eye Contact: Flush eyes with plenty of running water for at least 15 minutes, lifting upper and lower lids, occasionally. Get medical attention.

Skin Contact: Wash the affected areas with soap and water. If irritation persists, seek medical attention. Remove contaminated clothing and wash before reuse.

Slight Inhalation: Remove affected person to fresh air. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Get medical attention.

Slight Ingestion: If swallowed, call physician or poison control centre immediately. DO NOT induce vomiting. Rinse mouth with water. Aspiration of material into lungs due to vomiting may cause chemical

pneumonitis which can be fatal.

Section 9 MSDS Preparation

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Verified by Regulatory Affairs Dept..

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Emergency Phone: CANUTEC (613) 996-6666

Section 10 Transport Information

Storage: Keep away from heat and open flame. Contents under pressure, store at temperatures below 50°C. Do not puncture can. Keep out of reach of children.

Shipping: Consumer commodity. Ground or water transportation only (No Air Shipments),

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