

SAFETY DATA SHEETS

This SDS packet was issued with item:

078012175

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078012167 078012183

Identity: **VIRBAC KNOCKOUT[®] SHAMPOO Permethrin and IGR Shampoo For Dogs**
Product Code 605508 or 605510

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Section I

Supplier Information:		Emergency Telephone Number
Name:	VIRBAC CORP. (Virbac AH Inc., Allerderm [®] , Francodex [®] , Mardel [®] , St. JON [®] , PMResources, Zema [®])	Contact : POISON CONTROL CENTER or 911
Address:	P. O. BOX 162059	
City:	FORT WORTH	Telephone Number for Information
State:	TX 76161	Contact Virbac: 800/338-3659

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Special Chemical Identification; Common Name)	OSHA PEL	ACGIH TLV	STEL	CAS #	% (opt.)
PERMETHRIN ¹	Not Applicable	Not Applicable	Not Applicable	52645-53-1	1.00%
PYRIPROXYFEN	Not Applicable	Not Applicable	Not Applicable	95737-68-1	0.01%
Inert ingredients					98.99%

¹ cis-trans isomer ratio: min 45% (±), max 55% (±) trans

Section III - Physical/Chemical Characteristics

Boiling Point:	Not Applicable
Specific Gravity (H ₂ O = 1):	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Melting Point:	Not Applicable
Vapor Density (AIR = 1):	Not Applicable
Evaporation Rate (Butyl Acetate = 1):	Not Applicable
Solubility in Water:	Complete
Appearance and Odor:	Blue/Green Viscous Liquid, faint, mild odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used):	Not Flammable, however, see fire precautions.
Flammable Limits:	LEL: Not Applicable UEL: Not Applicable
Extinguishing Media:	Water spray, dry chemical, carbon dioxide, or foam suitable for the surrounding fire and materials.
Special Firefighting Procedures:	Usual pesticide precautions. Isolate fire area, evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapor generated..
Unusual Fire and Explosion Hazards:	Gives off irritating or toxic fumes (or gases) in a fire.

Section V - Reactivity Data

Stability	STABLE
Incompatibility	(Materials to Avoid): Strong Oxidizing Agents.
Hazardous Decomposition or Byproducts:	This formulation gives off irritating or toxic fumes (or gases) in a fire. Gases may include carbon monoxide and/ or carbon dioxide. Chlorine and hydrogen chloride may be formed.
Hazardous Polymerization	WILL NOT OCCUR
Conditions to Avoid:	Heat and Open Flame

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Section VI - Health Hazard Data

Routes of Entry: Inhalation? NO Skin? YES Ingestion? YES

Health Hazards (Acute and Chronic):

Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Signs and Symptoms of Exposure:

Symptoms of overexposure include diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity. Contact with this product rarely produces skin sensations such as numbing, burning and tingling. These skin sensations are reversible and usually subside within 12 hours.

Medical Conditions Generally Aggravated by Exposure: None presently known.

Emergency and First Aid Procedures

INGESTED: Call a physician or Poison Control Center. Do not induce vomiting.
SKIN CONTACT: Wash affected areas promptly with soap and water. Rinse thoroughly.
EYE CONTACT: Rinse eyes with water for a minimum of 15 minutes and call a physician if irritation persists.
INHALATION: If symptoms of overexposure are noted, reduce exposure by supplying fresh air.

Note to Physician:

This solution has a low oral and dermal toxicity, and is minimally irritating to the eyes and practically non-irritating to the skin. Reversible skin sensations (parasthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Dike and contain spill. Clean with inert absorbent material and collect for disposal.
Waste Disposal Method: Wrap container and dispose of in accordance with all applicable federal, state, and local laws.
Precautions to be Taken in Handling or Storage: Store in a tightly closed container, in a cool dry area.
Other Precautions: Keep out of the reach of children.

Section VIII - Control Measures

Respiratory Protection: For splash or mist exposure, wear as a minimum, a properly fitted half-face or full-face air-purifying respirator that is approved for pesticides. Respirator use and selection must be based on airborne concentrations.

Ventilation	Local Exhaust:	Not Applicable
	Special:	Not Applicable
	Mechanical (General):	Not Applicable
Protective Gloves:		Rubber gloves for prolonged or repeated exposure
Eye Protection:		Glasses or goggles
Other Protective Clothing or Equipment:		Protective clothing i.e. waterproof gloves, preferably elbow length, persons who repeatedly use or are exposed to this product in grooming operations should wear waterproof aprons.
Work/Hygienic Practices:		Wash hands after using.

Section IX - Additional Information

Disclaimer of Expressed and Implied Warranties: This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.

Prepared by QA Department
New MSDS Dated: 08/27/99
Supersedes MSDS Date: NA