

MATERIAL SAFETY DATA SHEET
VET KEM TRIPLE ACTION³ SHAMPOO FOR DOGS, CATS, PUPPIES & KITTENS

Manufacturer: Wellmark International
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Emergency Phone: 1-800-766-7661
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Vet Kem Triple Action³ Shampoo for Dogs, Cats, Puppies & Kittens
Chemical Name/Synonym: Pyrethrins; a mixture of Pyrethrin I, Pyrethrin II, Jasmolin I, Jasmolin II, Cinerin I, and Cinerin II, Piperonyl Butoxide; 5-[2-(2-butoxyethoxy) ethoxymethyl]-6-propyl-1,3- benzodioxole
Chemical Family: Pyrethroid, Benzodioxole
Formula: C₂₁ H₂₈ O₃, C₂₂ H₂₈ O₅, C₂₁ H₃₀ O₃, C₂₂ H₃₀ O₅, C₂₀ H₂₈ O₃ and C₂₁ H₂₈ O₅ respectively; C₁₉ H₃₀ O₅,
EPA Registration No.: 2724-506
RF Number: RF2045

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
Pyrethrins	8003-34-7	0.15%	5 mg/m3 (OSHA & ACGIH)
Piperonyl butoxide	51-03-6	1.50%	
Inert ingredients		98.35%	

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENTS
CAUTION
KEEP OUT OF REACH OF CHILDREN
CAUSES MODERATE EYE IRRITATION
HARMFUL IF ABSORBED THROUGH THE SKIN

PRIMARY ROUTE OF ENTRY **Dermal/Eye:** Yes **Oral:** No **Inhalation:** No

ACUTE TOXICITY **Oral:** Amounts transferred to the mouth by fingers, etc., during normal operations should not cause injury.
Dermal: May cause mild skin irritation.

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Harmful if absorbed through skin.
Eye Irritation: Causes moderate eye irritation.
Sensitizer: Not a skin sensitizer.

4. FIRST AID MEASURES

Eye: 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 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.

Note to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

NFPA Rating: Health: 1 Fire: 0 Reactivity: 0

Flammability Class: non-combustible liquid

Flash Point: not available

Explosive Limits (% of Volume): not available

Extinguishing Media: CO2, foam, dry chemical

Special Protective Equipment: Firefighters should wear full protective clothing including self-contained breathing apparatus.

Fire Fighting Procedures: Normal procedures. Do not allow fire fighting water to escape into water-ways or sewers.

Combustion Products: None known

Unusual Fire/Explosion Hazards: None known

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Do not allow spill to enter waterways inhabited by aquatic organisms. Soak up spill with absorbent material and place in container for disposal.

Absorbents: Clay granules, sawdust, dirt or equivalent.

Incompatibles: Strong oxidizers, strong acids

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Storage: Store in a cool place. Do not contaminate water, food or feed by storage

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Pyrethrins = 5 mg/m3 (OSHA PEL & ACGIH TLV)

Ventilation: Natural ventilation will suffice.

Personal Protective Equipment: Under conditions of normal use, no special personal protective equipment is required. If prolonged exposure is anticipated, it is recommended for users and handlers to wear impervious gloves, goggles and other appropriate clothing to prevent skin and eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	clear, green, viscous liquid; pleasant perfume-like odor
Boiling Point:	not available
Melting Point:	not applicable
Vapor Pressure (mm Hg):	not available
Vapor Density (Air = 1):	not available
Specific Gravity:	1.021
Bulk Density:	8.5 lbs/gallon
Solubility:	miscible with water
Evaporation Rate:	not available
pH:	5.94

10. STABILITY AND REACTIVITY

Stability:	Stable
Reactivity:	Not reactive
Incompatibility w/ Other Materials:	Strong oxidizers, strong acids
Decomposition Products:	None known
Hazardous Polymerization:	Stable - will not polymerize

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Piperonyl butoxide

Acute oral toxicity: LD50 = 4300 mg/kg
Acute dermal toxicity: LD50 > 2000 mg/kg
Acute inhalation toxicity: 4-Hour LC50 > 5.0 mg/L
Skin irritation: Essentially non-irritating
Eye irritation: Essentially non-irritating

Pyrethrins (pyrethrum)

Acute oral toxicity: LD50 = 2370 mg/kg (male rats)
LD50 = 1030 mg/kg (female rats)
LD50 273 – 796 mg/kg (mice)
Acute dermal toxicity: LD50 > 1500 mg/kg (rats)
LD50 = 5000 mg/kg (rabbits)
Acute inhalation toxicity: 4-Hour LC50 3.4 mg/L (rats)
Skin irritation: Slightly irritating
Eye irritation: Slightly irritating

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

Piperonyl butoxide: An increase in the number of benign liver tumors in mice fed piperonyl butoxide technical at doses which far exceeded any anticipated daily human intake. Independent and industry toxicology experts have reviewed the data and agree that the findings of the study do not indicate a health risk to humans.

Carcinogenicity: NTP: No IARC: No OSHA: No

Pyrethrins: Marginally higher incidences of benign thyroid, parathyroid, ovary, and liver tumors were observed in rats and in lungs of mice following lifetime high dose exposure to pyrethrum. The significance of these observations is questionable.

Carcinogenicity: NTP: No IARC: No OSHA: No

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]

Piperonyl butoxide: There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits. It is not considered to be teratogenic.

Pyrethrins: There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits. It is not considered to be teratogenic.

MUTAGENICITY [Specific to Active Ingredient(s)]

Piperonyl butoxide is not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberrations in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

Pyrethrins: Pyrethrum was not found to be genotoxic and did not damage DNA in any study conducted (Ames mutagenicity assay, chromosome aberrations in Chinese hamster ovary (CHO) cells, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

12. ECOLOGICAL INFORMATION

ECOTOXICITY [Active Ingredients Only]

Piperonyl butoxide and pyrethrins are toxic to fish. Do not discharge effluent containing these components to sewer systems without previously notifying the local sewage treatment plant authority. Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water or food by disposal. **Disposal:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. TRANSPORT INFORMATION

DOT49CFR Description: NOT REGULATED

Freight Classification: Shampoo NOI in boxes NMFC 59320 (2)

15. REGULATORY INFORMATION

CERCLA (Superfund): Reportable Quantity (RQ) Pyrethrins = 1 lb

RCRA: Not regulated as hazardous

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes (irritant)

Delayed Health: No

Fire: No

Sudden Pressure: No

Reactivity: No

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.