

MATERIAL SAFETY DATA SHEET
ZODIAC TRIPLE ACTION CONDITIONING FLEA & TICK SHAMPOO FOR DOGS, CATS, & HORSES

Manufacturer: Wellmark International
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Emergency Phone: 1-800-950-4783
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Zodiac Triple Action Conditioning Flea & Tick Shampoo for Dogs, Cats & Horses
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, N-octyl bicycloheptane dicarboximide; N-(2ethylhexyl)-5-norbonene-2,3- dicarboximide, Di-n-propyl isocinchomeronate; di-n-propyl 2,5pyridinedicarboxylate
Chemical Family: Pyrethroid, Benzodioxole, Dicarboximide, Ester of Pyridinedicarboxylic acid
Formula: C₂₁ H₂₈ O₃, C₂₂ H₂₈ O₅, C₂₁ H₃₀ O₃, C₂₂ H₃₀ O₅, C₂₀ H₂₈ O₃ and C₂₁ H₂₈ O₅ respectively, C₁₉ H₃₀ O₅, C₁₇ H₂₅ NO₂, C₁₃ H₁₇ NO₄
EPA Registration No.: 2724-501
RF Number: 9208

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/m ³ (OSHA & ACGIH)
Piperonyl butoxide	51-03-6	1.00%	
N-octyl bicycloheptene dicarboximide	113-48-4	0.50%	
Di-n-propylisocinchomeronate	136-45-8	0.50%	
Inert ingredients		97.85%	

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

Warning: Keep out of the reach of children. Causes skin and eye irritation. Do not get in eyes or on skin or clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Usual signs of overexposure are those associated with allergies, i.e., sneezing, runny nose, stuffiness, watery eyes, in rare cases asthma-like symptoms.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes and skin. Wash thoroughly with soap and water after handling.

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: If prolonged exposure is anticipated, it is recommended for users and handlers to wear a NIOSH approved organic vapor/pesticide respirator, impervious gloves, goggles and other appropriate clothing to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear green liquid, pleasant odor.

Boiling Point: N/A

Melting Point: Not applicable

Vapor Pressure (mm Hg): N/A

Vapor Density (Air = 1): N/A

Specific Gravity: N/A

Bulk Density: Not applicable

Solubility: Miscible in water

Evaporation Rate: N/A

pH: 7.5

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Nonreactive

Incompatibility w/ Other Materials: Strong oxidizers, strong acids

Decomposition Products: None known

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

In a 2-year feeding study, rats were fed pyrethrum at dietary levels of 10, 50 and 250 mg/kg/day. The highest level had no significant effect on growth or survival. Slight though definite liver damage was observed, especially at higher dosage levels. In a 90-day feeding study, dogs that were fed pyrethrins at a dietary level of 5,000 ppm showed tremors, ataxia, labored respiration and salivation during the first month of exposure. In rats at a dietary level of 10,000 ppm of Piperonyl Butoxide, (dosage of 650 mg/kg/day), there was a moderate reduction of weight gain, increased relative weight of the kidneys and increased relative weight of the liver. A 2-year bioassay of technical Piperonyl Butoxide for possible carcinogenicity was conducted by administering dietary levels of 5,000 and 10,000 ppm to rats and mice. In the female rats, lymphomas occurred at incidences that were dose related. In the male mice, adenomas of the lacrimal gland occurred at incidences that were dose related but were not significantly higher than that in the control group. Thus, the occurrence of this tumor in the male mice was not clearly related to the administration of Piperonyl Butoxide.

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

Rats were given pyrethrins via gavage at doses of 50, 100, and 150 mg/kg. Increased resorptions were found at the 100 and 150 mg dose levels. No significant increase in defect rate was found. Decreased reproduction occurred in rats at dose levels of 650 mg/kg/day of Piperonyl Butoxide. There was a delay of over 23 days to the first litter, reduced average number of litters, reduced average weight of pups at 4 weeks of age, and a trend to smaller litters. In a separate study, Piperonyl Butoxide was administered to rats by gavage at 300 and 1,000 mg/kg. Piperonyl Butoxide was found not to be teratogenic at levels below maternally toxic levels.

MUTAGENICITY [Specific to Active Ingredient(s)]

Piperonyl Butoxide is not considered to be a mutagen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Active Ingredients Only]

Hydrolysis: N/A

Photolysis: N/A

Soil half life: N/A

Water solubility: N/A

ECOTOXICITY [Active Ingredients Only]

Acute Toxicity: Pyrethroids are potentially toxic to aquatic organisms. This product is not intended for aquatic environments.

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 as hazardous by U.S. DOT

Freight Classification: Shampoo, hair, N.O.I. in boxes: NMFC 59320 Sub 2 Cl 65

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.