

## 1. Product and Company Identification

**Product Code:** 2724-506-43591  
**Product Name:** MYCODEX FLEA & TICK SHAMPOO P3  
**Manufacturer Information**  
**Company Name:** Distributed by:  
Veterinary Products Laboratories  
P.O. Box 34820  
Phoenix, AZ 85067-4820  
**Emergency Contact:** CHEMTREC (800)424-9300  
**Information:** (888)241-9545  
**Preparer Name:** SFaith/Regulatory

### Additional Identity Information

100503640 (6-oz); 100503641 (12-oz); 100503642 (1-gal)

## 2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV
1. Pyrethrins and Pyrethroids	8003-34-7	0.15 %	5 mg/m3	5 mg/m3
2. Piperonyl butoxide	51-03-6	1.5 %	No data.	No data.

## 3. Hazards Identification

### Emergency Overview

KEEP OUT OF REACH OF CHILDREN

**Route(s) of Entry:** Inhalation? N.A. Skin? Yes Eyes? Yes Ingestion? N.A.

### Potential Health Effects (Acute and Chronic)

Causes moderate eye irritation.  
Harmful if absorbed through the skin.

### Recommended Exposure Limits

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

### Signs and Symptoms Of Exposure

No data available.

### Additional Hazards Information

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

## 4. First Aid Measures

### Emergency and First Aid Procedures

IF IN EYES: 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.

IF ON 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

**Flammability Classification:** non-combustible liquid  
**Flash Pt:** NA  
**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** NA

**Fire Fighting Instructions**

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

**Flammable Properties and Hazards**

None known

**Hazardous Combustion Products**

None known

**Extinguishing Media**

CO2, foam, dry chemical

**Unsuitable Extinguishing Media**

None known

**Additional Fire Fighting Information**

Firefighters should wear full protective clothing including self-contained breathing apparatus.

**6. Accidental Release Measures**

**Steps To Be Taken In Case Material Is Released Or Spilled**

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.

**7. Handling and Storage**

**Precautions To Be Taken in 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.

**Precautions To Be Taken in Storing**

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

**8. Exposure Controls/Personal Protection**

**Respiratory Equipment (Specify Type)**

See below

**Eye Protection**

See below

**Protective Gloves**

See below

**Other Protective Clothing**

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.

**Engineering Controls (Ventilation etc.)**

Natural ventilation will suffice.

**Work/Hygienic/Maintenance Practices**

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

**9. Physical and Chemical Properties**

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Melting Point:** NA

**Boiling Point:** NA

**Autoignition Pt:** NA

**MATERIAL SAFETY DATA SHEET**  
**MYCODEX FLEA & TICK SHAMPOO P3**

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<b>Flash Pt:</b>	NA
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Specific Gravity (Water = 1):</b>	1.021
<b>Density:</b>	8.5 LB/GA
<b>Bulk density:</b>	No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NA
<b>Vapor Density (vs. Air = 1):</b>	NA
<b>Evaporation Rate (vs Butyl Acetate=1):</b>	NA
<b>Solubility in Water:</b>	No data.
<b>Solubility Notes</b>	
Miscible with water	
<b>Percent Volatile:</b>	NA
<b>VOC / Volume:</b>	NA 0.0000
<b>HAP / Volume:</b>	NA 0.0000
<b>Saturated Vapor Concentration:</b>	NA
<b>Viscosity:</b>	NA
<b>Heat Value:</b>	No data.
<b>Particle Size:</b>	No data.
<b>Corrosion Rate:</b>	No data.
<b>pH:</b>	5.94

**Appearance and Odor**

Clear, green, viscous liquid; pleasant perfume-like odor

**10. Stability and Reactivity**

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability**

None known

**Incompatibility - Materials To Avoid**

Strong oxidizers, strong acids

**Hazardous Decomposition Or Byproducts**

None known

**Hazardous Polymerization:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Polymerization**

None known

**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 Toxicological Effects

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/Other Information

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Pyrethrins and Pyrethroids	8003-34-7	n.a.	n.a.	A4	n.a.
2. Piperonyl butoxide	51-03-6	n.a.	n.a.	n.a.	n.a.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

### Additional Toxicological Information

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

### Waste Disposal Method

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

### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** Not regulated by U.S. DOT

**DOT Hazard Label:** None

## 15. Regulatory Information

No data available.

## 16. Other Information

### **Company Policy or Disclaimer**

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification.