



Material Safety Data Sheet

DOT	HCS Risk Phrases	Protective Clothing
	Insecticide Signal Word "Caution"	

Section 1: Product Identification and Uses

Common/Trade name	Permethrin™ II EPA Reg. No#: 4691-108	CI#	Not applicable
Synonyms	Permethrin 10% EC	TSCA	TSCA: None listed
Chemical name	Not available	CAS#	Not applicable
Chemical formula	Not available	Code	MSDS ID#: 4691-108
Chemical family	Pyrethroid mixture	Molecular weight	Not available
Supplier	Boehringer Ingelheim Vetmedica, Inc. 2621 North Belt Hwy St. Joseph MO 64506-2002	Manufacturer	Boehringer Ingelheim Vetmedica, Inc. 2621 North Belt Hwy St. Joseph MO 64506-2002 816-233-2571
Material uses	Antiparasitic		

Section 2: Hazardous Ingredients

Name	CAS#	% by Weight	TLV/PEL	LC50 / LD 50
Permethrin	52645-53-1	10	Not available	LD50, Oral, Rat 3800 mg/kg

Section 3: First Aid Measures

Eye contact	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 contact	If the chemical contacts a clothed portion of the body, remove the contaminated clothing as quickly as possible, protecting the hands and body. Rinse skin immediately with plenty of water for 15-20 minutes. If chemical contacts the skin, immediately wash with soap and water. Call a poison control center or doctor for treatment advice. Wash contaminated clothing separately from normal laundry.
Hazardous skin contact	No additional information
Slight inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Hazardous inhalation	No additional information
Slight ingestion	If ingested, immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Contains petroleum distillate – vomiting may cause aspiration pneumonia. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Hazardous ingestion	No additional information

Section 4: Physical Data

Physical state and appearance	Liquid	Odor	Oil
PH (1% soln/water)	Not available	Taste	Not available
Odor threshold	Not available	Color	Yellowish
Volatility	Not available		
Melting/Sublimation point	Not available		
Boiling/Condensation point	110°C (230°F)		
Specific gravity (Water=1)	7.29 lbs/gal		
Vapor density (Air=1)	48.3		
Vapor pressure	>5 mm of Hg (@20°C)		
Water/oil dist. Coeff.	Not available		
Ionicity (surface active agent)	Not available		
Critical temperature	Not available		
Instability temperature	Not available		
Conditions of instability	Not available		
Dispersion properties	Can be dispersed in water.		
Solubility	Soluble in water.		


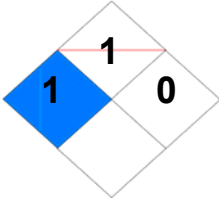
Section 5: Fire and Explosion Data

The product is:	Not flammable
Auto-ignition temperature	Not available
Fire degradation products	Carbon oxides (CO ₂ , CO)
Flash points	250 °F
Flammable limits	Not available
Fire extinguishing procedures	Small Fire: Use dry chemical, CO ₂ , water spray or foam Large Fire: Use water spray, fog or foam. Do not use water jet. NIOSH approved SCBA and full protective gear is recommended for fire fighters.
Flammability	Not flammable
Risks of explosion	Not available

Section 6: Reactivity Data	
Stability	The product is stable
Hazardous decomp. products	None known
Degradability	Not available
Product of degradation	Not available
Corrosivity	No specific information is available in our database regarding the corrosivity of this product in the presence of various materials
Reactivity	Oxidizing agents, acids, slightly reactive with reducing agents, organic materials, metals, alkalis, non-reactive with moisture

Section 7: Toxicological Properties	
Routes of entry	Skin and eye contact, absorption, inhalation, ingestion
TLV	Not available
Toxicity for animals	LD50: Not available LC50: Not available
Environmental hazards	Extremely toxic to fish and other invertebrates. Do not add directly to water or to areas where surface waters are present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. Apply this product only as specified on the label.
Chronic effects on humans	Carcinogenic Effects: None known Mutagenic Effects: None known Teratogenic Effects: None known Developmental Toxicity: None known
Acute effects on humans	May be harmful if swallowed, inhaled or absorbed through the skin. Reversible skin tingling or numbness, skin irritation and sensitivity, CNS depression, respiratory irritation, nausea, dizziness, intoxication and narcosis are some of the adverse health effects reported for ingredients contained in this product.

Section 8: Preventive Measures	
Waste information	Triple rinse container then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
Waste stream	Universal waste pesticide
Storage	Keep container sealed when not in use. Do not store near food or feed. Keep away from heat and ignition sources.
Precautions	Keep out of reach of children. Keep away from heat and sources of ignition. Do not breathe fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid skin and eye contact. Keep away from incompatibles such as oxidizing agents and acids. Do not contaminate water, food or feed by storage or disposal. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.
Small spill and leak	Absorb with inert material. Place in appropriate container and remove from the area. When cleaning up spills, wear goggles, boots, gloves, apron and vapor respirator if necessary to keep material from contacting the skin or clothing or being inhaled. Keep product away from heat and ignition sources.
Large spill and leak	No additional information
Protective Clothing	Goggles and gloves are recommended to avoid skin and eye contact.

Section 9: Classification									
DOT									
Maritime transportation	Not available								
HCS	Insecticide Signal Word "Caution"								
Federal and State Regulations	No additional information								
HMIS (U.S.A.)	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> </tr> <tr> <td>Fire Hazard</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td>B</td> </tr> </table> <div style="display: flex; align-items: center; margin-left: 20px;"> <div style="margin-right: 10px;">National Fire Protection Association (U.S.A.)</div>  <div style="margin-left: 10px;"> <p>Fire Hazard</p> <p>Reactivity</p> <p>Specific hazard</p> </div> </div>	Health Hazard	1	Fire Hazard	1	Reactivity	0	Personal Protection	B
Health Hazard	1								
Fire Hazard	1								
Reactivity	0								
Personal Protection	B								

Section 10: Protective Measures	
Protective clothing	Splash goggles and gloves are recommended to avoid skin and eye contact, apron and vapor respirator if necessary.
Engineering controls	Local exhaust sufficient under normal use conditions. Additional ventilation may be necessary in the event of a spill.

Section 11: Other Information	
References	Not available.
Validated by Company: 8/25/05	

CALL 1(800) 821-7467
Emergency Medical: (800)530-5432
Chemtrec: (800)424-9300

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