



Material Safety Data Sheet

DOT	HCS Risk Phrases	Protective Clothing
	Not an HCS controlled material in USA	

Section 1: Product Identification and Uses

Common/Trade name	Avenger Insecticide Cattle Ear Tag, EPA Reg. No.: 4691-169	CI#	Not available
Synonyms	Not available	TSCA	TSCA inventory: No products were found.
Chemical name	Not available	CAS#	Not applicable
Chemical formula	Not available	Code	MSDS ID#: 4691-169
Chemical family	Organophosphate Insecticide	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	Insecticidal ear tag for use in the control of various flies and ticks common to beef and dairy cattle.		

Section 2: Hazardous Ingredients

Name	CAS#	% by Weight	TLV/PEL	LC50 / LD 50
1) Diazinon [0,0-diethyl-0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate]	000333415	40	TWA: 0.1 CEIL: 0.3 (mg/m ³)	LD50 Oral (rat) 1250 mg/kg; Dermal (rabbit)> 2000 mg/kg LC50: Inhalation (rat)>2,33 mg/L (4 hr)
2) Tetrachlorvinphos: (z)-2-Chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate	22248799	10	Rec. AEL: 5 mg/m ³	Acute oral toxicity (LD50): 2500-5000 mg/kg [mouse]. 600-1600 mg/kg [Rat]. Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit]. Inhalation LC50 > 3.61 mg/l (rat) - 4 hr. non-lethal in tetrachlorvinphos study.

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	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.
Hazardous skin contact	No additional information.
Slight inhalation	(Hazard not expected from insecticidal tag except in fires.). Remove person from contaminated area to fresh air. Resuscitate and/or administer oxygen as necessary. Seek medical attention if necessary.
Hazardous inhalation	No additional information.

Section 3: First Aid Measures (cont'd)

Slight ingestion	(Unlikely due to tag dimensions). Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.
Hazardous ingestion	Not available.

Section 4: Physical Data

Physical state and appearance	Solid (Plastic solid)	Odor	Pungent. Sulfurous. (Strong)
PH (1% soln/water)	Not available	Taste	Not available
Odor threshold	Not available	Color	Orange
Volatility	Not available		
Melting/Sublimation point	Not available		
Boiling/Condensation point	Not available		
Specific gravity (Water=1)	Not applicable		
Vapor density	Not available		
Vapor pressure	9.67x10 ⁻⁵ mbar @ 20°C (Diazinon) and 2.6 x 10 ⁻⁷ mm Hg @ 25°C (Tetrachlorvinphos)		
Water/oil dist. Coeff.	Not available		
Ionicity (surface active agent)	Not available		
Critical temperature	Not available		
Instability temperature	Not available		
Conditions of instability	No additional remark		
Dispersion properties	Not available		
Solubility	(in H ² O) Minimal as Formulated		

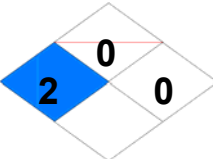
Section 5: Fire and Explosion Data

The product is:	Not applicable
Auto-ignition temperature	360°C (680°F)
Fire degradation products	Thermal decomposition including aliphatic organophosphates, CO, CO ₂ and cyanic acid.
Flash points	Not available
Flammable limits	Not available
Fire extinguishing procedures	SMALL FIRE: Use DRY chemicals, CO ₂ , water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. SPECIAL FIRE FIGHTING PROCEDURES: Recommend pressure-demand, self-contained breathing apparatus (SCBA). Wear full protective equipment and isolate area.
Flammability	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Risks of explosion	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Section 6: Reactivity Data	
Stability	The product is stable.
Hazardous decomp. products	If burned, aliphatic organophosphates, CO, CO ₂ and acid may be formed. Keep out of smoke. Avoid contact.
Degradability	Not available.
Product of degradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Corrosivity	No specific information is available in our database regarding the corrosivity of this product in the presence of various materials.
Reactivity	No specific information is available in our database regarding the reactivity of this material in presence of various other materials.

Section 7: Toxicological Properties	
Routes of entry	Eye contact, ingestion, inhalation, skin contact.
TLV	Not available.
Toxicity for animals	Not available.
Environmental hazards	Toxic to fish. Do not apply directly to water. Do not contaminate water by disposal of waste (spent tags).
Chronic effects on humans	Unlikely from ear tag device. Physician: this product contains a cholinesterase inhibitor. If symptoms of cholinesterase inhibition are present, atropine sulphate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Exposure to cholinesterase inhibitors should be restricted in persons with hemolytic anemia or pre-existing depression of cholinesterase. Morphine is contraindicated in poisonings by organophosphates.
Acute effects on humans	No additional information.

Section 8: Preventive Measures	
Waste information	Waste (Spent tags) resulting from use of this product may be disposed of on site or at an approved waste disposal facility. Dispose of empty container in sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.
Waste stream	Not available
Storage	Do not contaminate water, food or feed by storage or disposal. Store in a cool place in original container only. Keep out of reach of children.
Precautions	Toxic to fish. Do not apply directly to water. Do not contaminate water by disposal of waste (spent tags).
Small spill and leak	Avoid any contact. Keep people away. Wear protective clothing and equipment. Notify State and Federal agencies according to Spill Plan.
Large spill and leak	No additional information
Protective Clothing	Gloves (impervious) and NIOSH approved respirator, if necessary.

Section 9: Classification									
DOT	Shipping Name: Insecticide, Dry								
Maritime transportation	Environmentally hazardous substances, N.O.S., (Solid), (Diazinon 40%), UN3077, PG:III								
HCS	Not an HCS controlled material in USA								
Federal and State Regulations	Not available								
HMIS (U.S.A.)	<table border="1"> <tr> <td>Health Hazard</td> <td>2</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td>B</td> </tr> </table> <p>National Fire Protection Association (U.S.A.)</p>  <p>Fire Hazard Reactivity Specific hazard</p>	Health Hazard	2	Fire Hazard	0	Reactivity	0	Personal Protection	B
Health Hazard	2								
Fire Hazard	0								
Reactivity	0								
Personal Protection	B								

Section 10: Protective Measures	
Protective clothing	Gloves (impervious). Safety glasses. NIOSH approved respirator, if necessary.
Engineering controls	Good general ventilation should be sufficient to control airborne levels.

Section 11: Other Information	
References	Not available
Validated by Company: 3/21/05	

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

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