



Flycam Pty Ltd

Specialising in Integrated Buffalo Fly Control on Cattle,
V-TEX Livestock Identification & Pest Control Products



Material Safety Data Sheet

PRODUCT NAME: Optimizer[®] Insecticidal Cattle Ear Tag
Australia APVMA Approval No. 46406

SECTION 1 - MANUFACTURER

Distributor's

Name FLYCAM PTY LTD.

Address

7/26 Achievement Crescent

City, State, and ZIP

Acacia Ridge, QLD 4110

Date MSDS Prepared

27/1/1994

Date Revised

24/03/2010

For Health Safety Emergency Only:

13-1126 Poisons Information Centre

Other Information Calls

(02) 6282 5325 Flycam Pty Ltd.

U.S. EPA Establishment No.

39039-WY-01

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	U.S. OSHA PEL	ACGIH TLV	CAS No.	Concentration (w/w)	
				%	g/kg
ACTIVE INGREDIENT: Diazinon 0, 0-diethyl-0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate		0.1 mg/m ³ (skin)	333-41-5	20.0%	200
Nuisance Material (inert)	15 mg/m ³	10 mg/m ³		3.0%	30

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	Not Applicable	Specific Gravity (H ₂ O=1)	1.20	Vapor Pressure (mm Hg)	For diazinon: 2 x 10 ⁻⁴ @ 20C
Vapor Density (Air=1)	Not Applicable				
Solubility in Water	Essentially Insoluble (Diazinon = 40 ppm (40mg/kg) @ 20C)	Reactivity in Water	None		
Appearance and Odor	Orange ear tag; Mild, sulfur-like odor	Melting Point	About 150°C		

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	NA	F.	C.	Method Used	Flammable Limits in Air % by Volume	LEL	Lower	UEL	Upper	Not Determined
Auto-Ignition Temperature	Not Determined			Extinguisher Media	Large fire: Water fog; foam. Small fire: CO ₂ ; Dry chemical. Minimize water use and contain runoff.					
Special Fire Fighting Procedures	Wear protective clothing including rubber gloves and boots and self-contained air supply (SCBA) Remain upwind if possible. Runoff must be contained due to fish toxicity.									
Unusual Fire and Explosion Hazards	If fire seriously threatens large storage of tags, personnel should evacuate the area as toxic and irritating gases may be formed.									

Note: NA = Not Applicable

Optimizer[®] Insecticidal Cattle Ear Tag

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability	Unstable <input type="checkbox"/>	Conditions	Do not store near heat or open flame. Lengthy storage at high temperatures will promote
	Stable <input checked="" type="checkbox"/>	to Avoid	the migration of plasticizers and diazinon out of the tags, potentially reducing activity.
Incompatibility (Materials to Avoid)	None Known		
Hazardous Decomposition Products	Thermal decomposition products include but are not limited to various aliphatic organophosphates, substituted pyrimidines, hydrogen cyanide, CO and CO ₂ . HCl, phosgene, and chlorine gases are possible combustion products.		

Hazardous Polymerization	May Occur <input type="checkbox"/>	Conditions
	Will Not Occur <input checked="" type="checkbox"/>	to Avoid

SECTION 6 - HEALTH HAZARDS (SIGNAL WORD: WARNING)

1. Acute Low single dose toxicity: 2. Chronic Not Determined
Acute Oral LD₅₀ >2000mg/kg (rats, estimated for whole tag); Acute Oral LD₅₀ >2000mg/kg (tiny particles, male & female albino rats)
Acute Dermal LD₅₀ >5050mg/kg (male & female albino rabbits). Skin irritant: No (albino rabbits); Skin sensitizer: No (guinea pigs)

Signs and Symptoms of Exposure Diazinon is a cholinesterase inhibitor. Overexposure may produce any of the following possible symptoms: headache, giddiness, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in chest, nervousness, sweating, constricted pupils, tearing and salivation. Repeated minor exposure may have a cumulative poisoning effect.

Medical Conditions Generally Aggravated by Exposure None Presently Known.

Chemical Listed as Carcinogen	USA National Toxicology Program (National Cancer Institute)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	I.A.R.C. Monographs	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	USA OSHA	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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Emergency and First-Aid Procedures Obtain an emergency supply of atropine tablets, 0.6mg. If allergic skin irritation occurs, wash thoroughly with soap and water and seek medical attention. If overexposure symptoms occur, call a physician immediately. Note to physician: Atropine by injection is antidotal. 2-PAM may also be given, but only in conjunction with atropine.

ROUTES OF ENTRY

- Inhalation No apparent hazard with normal outdoor use. Acute inhalation LC₅₀ (diazinon, rat)=3.5 mg/L (4 hours)
- Eyes Eye contact may cause mild irritation. Avoid rubbing tags in eyes. If contacted, flush with plenty of water.
- Skin Avoid skin contact by wearing washable or disposable plastic gloves. Wash thoroughly with soap and water after use. After each day's use, wash gloves.
- Ingestion Poisonous if swallowed. Do not open inner sachet until ready for use. Do not allow children to play with tags.

FIRST AID: If accidentally sucked, give milk or water, contact a doctor or Poisons Information Centre, phone 13 1126.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Wear clean, washable or disposable gloves daily when applying tags. Wash thoroughly with soap and water after handling and before eating or smoking. Avoid contamination of food, feedstuffs or water. Toxic to fish. Do not contaminate streams, rivers or waterways with the tags or used containers.

Other Precautions Store in original container in a dry, cool place away from direct sunlight. Store below 30°C.

Waste Disposal Methods (Consult federal and state regulations) Puncture or shred and bury empty container/bag in a local authority landfill. If no landfill is available, bury the container/bag and spent tags at a depth of 500mm or more at an approved site. Do not burn empty containers or spent tags.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type)	None required			
Ventilation	Local Exhaust	Mechanical (General)	Special	Other
Protective Gloves	Washable or disposable plastic gloves	Eye Protection	None required	
Other Protective Clothing or Equipment	None Required			
Work/Hygienic Practices	See Section 7			

FLYCAM PTY LTD, 7/36 Achievement Crescent, Acacia Ridge, QLD 4110