

**SECTION 1: PRODUCT and COMPANY IDENTIFICATION**

Product Name: **OPTimizer® Insecticide Cattle Ear Tag**  
EPA Reg. No. 39039-3

Date Prepared: 1/27/94  
Date Revised: 4/1/16

Y-TEX Corporation  
1825 Big Horn Ave.  
Cody, WY 82414

For Health Safety Emergency Only, Call CHEM-TEL, Inc. (24 hours): 1-800-255-3924 US  
813-248-0585 International  
Other Information Calls: 800-443-6401, 307-587-5515 (Y-TEX)  
(7:30am – 4:30pm MDT, Monday-Friday)

General Use: End-use insecticide ear tag for cattle

**SECTION 2: HAZARDS IDENTIFICATION****GHS CLASSIFICATION:**

Health		Environmental		Physical
Acute Toxicity:	Category 5 (oral)	Acute Toxicity:	Unknown, See Section 12	None Known
Skin Irritation:	No	Chronic Toxicity:	Category 4	
Skin Sensitization:	No			
Eye:	No			

GHS LABEL:



SIGNAL WORD:

WARNING

**HAZARD STATEMENTS:**

Symbols: Exclamation - Acute Toxicity, Environmentally hazardous substance

Hazard Statements		Precautionary Statements	
<b>WARNING</b>		P101	If medical advice is needed, have product container or label at hand.
H303	May be harmful if swallowed	P102	Keep out of reach of children.
		P103	Read label before use.
H413	May cause long lasting harmful effects to aquatic life	P273	Avoid release to the environment.
		P312	Call a Poison Control Center or doctor if you feel unwell.
		P501	Dispose of contents by securely wrapping and discarding in trash. Non-refillable container. Do not reuse. Discard in trash or offer for recycling.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients:	Concentration (w/w)		CAS Number
	%	g/kg	
<b>Diazinon</b> 0,0-diethyl-0-(2-isopropyl-6-methyl-4-pyrimidinyl) Phosphorothioate	21.0% nom. (20% min.)	210 (200 min.)	333-41-5
Nuisance material (inert)	3.0%	30	

**SECTION 4: FIRST AID**

**Eye Contact:** Eye contact may cause mild irritation. Avoid eye contact with tags or used gloves. If contacted, flush with plenty of water.

**Skin Contact:** Avoid skin contact by wearing chemical-resistant gloves made of rubber or any waterproof material (thickness equal to or greater than 14 mils). Wash skin thoroughly with soap and water after use. If allergic skin irritation occurs, wash thoroughly with soap and water and seek medical attention.

**Ingestion:** May be harmful if swallowed. If part of tag is swallowed, may induce vomiting by giving two glasses of water and sticking finger down throat. Call physician.

**Inhalation:** No apparent hazard with normal outdoor use when following instructions on label.

**Other Information:** 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. If overexposure symptoms occur, call a physician immediately. **Note to physician:** Diazinon is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may also be administered, but only in conjunction with atropine.

**SECTION 5: FIRE FIGHTING MEASURES**

Flash Point (method): Not Applicable      Autoignition Temperature: Not Determined  
LEL: Not Applicable      UEL: Not Applicable

Flammability Classification: Not Applicable

**Extinguishing Media:** Large fire: water fog or foam. Small fire: CO<sub>2</sub> or dry chemical. Minimize water use and contain runoff.

**Hazardous Combustion Products:** Thermal decomposition products include but are not limited to various aliphatic organophosphates, substituted pyrimidines, hydrogen cyanide, CO & CO<sub>2</sub>. HC1, phosgene and chlorine gases are possible combustion products.

**Unusual Fire or Explosion Hazards:** If fire seriously threatens large storage of tags, personnel should evacuate the area as toxic and irritating gases may be formed.

**Fire-Fighting Instructions/Equipment:** (For a large quantity of product) 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.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Use recommended personal protective equipment (see Section 8). Small Spill: Solid product. Not applicable. Large Spill: Solid product. Not applicable.

**SECTION 7: HANDLING AND STORAGE**

**Handling Precautions:** Keep out of reach of children. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear chemical-resistant gloves made of rubber or any waterproof material (thickness equal to or greater than 14 mils) when applying tags.

**Storage Requirements:** Store in original container in a cool place away from direct sunlight. Opened bags containing ear tags should be resealed for storage.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

EXPOSURE LIMITS:	Component	U.S. OSHA PEL	ACGIH TLV
	Diazinon		0.1 mg/m <sup>3</sup> (skin)
	Nuisance material (inert)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Eye/Face Protection:	None required		Skin Protection: Wear chemical-resistant gloves made of rubber or any waterproof material (thickness equal to or greater than 14 mils)
Respiratory Protection:	None required		
Engineering Controls:	None required		
Administrative Controls:	Use this product only as specified on the label.		Other Information: See Section 7

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical State:	Solid, molded plastic ear tag, orange color		
Odor:	Mild, sulfur-like odor	Odor Threshold (ppm):	Not applicable
pH:	Not applicable	Melting Point:	Approx. 150°C (302°F)
Boiling Point:	Not applicable	Flash Point:	Not applicable
Evaporation Rate:	Not applicable	Flammability (solid, gas):	Solid, nonflammable
LEL:	Not applicable	UEL:	Not applicable
Vapor Pressure (mm Hg):	2 x 10 <sup>-4</sup> for diazinon at 20°C	Vapor Density (Air = 1):	Not applicable
Relative Density:	1.20 g/cc (15 g/tag)	Specific Gravity (H <sub>2</sub> O = 1):	Not applicable
Solubility in Water:	Essentially insoluble (Diazinon = 40 ppm at 20°C)		
Coefficient of Water/Oil solubility:	Not applicable	Autoignition Temperature:	Not applicable
Decomposition Temperature:	Not applicable	V.O.C.:	Not applicable

**SECTION 10: STABILITY AND REACTIVITY**

Chemical Stability:	Stable	Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Do not store near heat or open flame. Lengthy storage at high temperatures will promote the migration of plasticizers and diazinon out of tags, potentially reducing activity.		
Chemicals to Avoid:	None known		
Hazardous Decomposition Products:	Thermal decomposition products include but are not limited to various aliphatic organophosphates, substituted pyrimidines, hydrogen cyanide, CO & CO <sub>2</sub> . HC1, phosgene and chlorine gases are possible combustion products.		

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute Effects:** Very low single dose toxicity.

Eyes:	Eye contact may cause mild irritation. Avoid rubbing tags in eyes.		
Skin:	Acute dermal LD <sub>50</sub> >5050 mg/kg (male & female albino rabbits). Skin irritant: No (albino rabbits). Skin sensitizer: No (guinea pigs). Avoid skin contact by wearing chemical-resistant gloves made of rubber or any waterproof material (thickness equal to or greater than 14 mils).		
Ingestion:	Acute oral LD <sub>50</sub> >2000 mg/kg (male & female albino rats). May be harmful if swallowed. Do not store near food products.		
Inhalation:	Acute inhalation LC <sub>50</sub> (diazinon, rat) = 3.5 mg/L (4 hrs.) (data for active ingredient). No apparent hazard with normal outdoor use when following instructions on label.		

**Chronic Effects**

Eyes:	Not Determined	Carcinogenicity:	None known
Skin:	Not Determined	Target Organ Effects:	Not Determined
Ingestion:	Not Determined	Medical Conditions Aggravated by Long-term Exposure:	None presently known
Inhalation:	Not Determined	Sensitization to Product:	Skin – No (guinea pigs)
		Irritancy of Product:	Skin – No (albino rabbits)

**SECTION 12: ECOLOGICAL INFORMATION**

This product is highly toxic to fish, birds, and other wildlife. Do not apply directly to water. Do not contaminate water by disposal of used tags. Use this product only as specified on the label.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Pesticide Disposal:	Remove tags before animal slaughter. Securely wrap used tags in a plastic bag or several layers of newspaper and discard in trash. Do not reuse tag container. Discard in trash.
Container Disposal:	Non-refillable container. Do not reuse bag. Discard bag in trash, or offer for recycling if available.

**SECTION 14: TRANSPORT INFORMATION**

<b>U.S. DOT:</b>	UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diazinon mixture), CLASS 9, PG III, Limited Quantity
<b>IATA:</b>	UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diazinon mixture), CLASS 9, PG III, Limited Quantity
<b>VESSEL (IMO/IMDG):</b>	UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diazinon mixture), CLASS 9, PG III, Limited Quantity, Marine Pollutant

**SECTION 15: REGULATORY INFORMATION**

Diazinon is on the U.S. EPA's Section 313 TRI Reporting list

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear chemical-resistant gloves made of rubber or any waterproof material (thickness equal to or greater than 14 mils) when applying tags

**NOTE TO PHYSICIAN:** Diazinon is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

**SECTION 16: OTHER INFORMATION**

Revision date: 4/1/16	USA EPA Reg. No.: 39039-3; USA Establishment No.: 39039-WY-01		
Argentina, Cert. No. 97292	Australia, APVMA Reg. No. 46406	Brazil, Lic. Min. Agri. No. 7.641	Canada, PCPA Reg. No. 25334
Chile, Reg. SAG No. 0142	Colombia, Reg. ICA No. 4.368-DB	Dominican Republic, Reg. No. 5294	
Mexico, RSCO-PEC-INAC-0120-390-373-020	Paraguay, Reg. MAG No. 5308	Uruguay, Reg. MGAP nro. A-883	Venezuela N° Registro P.I. 6.383

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