# MATERIAL SAFETY DATA SHEET ZOECON® CATALYST™ EMULSIFIED IN WATER INSECTICIDE

Manufacturer:	Wellmark International
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Emergency Phone:	1-800-248-7763
Transportation Emergency Phone:	CHEMTREC: 1-800-424-9300

## 1. CHEMICAL PRODUCT INFORMATION

Product Name:	Zoecon® Catalyst™ Emulsified in Water Insecticide
Chemical Name/Synonym:	Propetamphos: {(E)-1-methylethyl 3-[[(ethylamino) methoxyphosphinothioyl]oxy]-2-butenoate
Chemical Family:	Organophosphate
Formula:	C10 H20 N O4 PS
EPA Registration No.:	2724-450
RF Number:	9001

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component (chemical, common name)	<u>CAS</u> <u>Number</u>	<u>Weight</u>	<b>Tolerance</b>
Propetamphos: {(E)-1-methylethyl 3- {{(ethylamino)methoxyphosphinothioyl}oxy}-2-butenoate}	31218-83-4	18.9%	Not established
Inert Ingredients (non-hazardous and/or trade secret):		81.1%	Not established

## 3. HAZARD INFORMATION

# PRECAUTIONARY STATEMENT

WARNING: Keep out of the reach of children. May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing.

## SIGNS AND SYMPTOMS OF OVEREXPOSURE

This product contains a cholinesterase inhibiting compound. Early symptoms are unspecific and may include headache, nausea, vomiting, salivation, sweating, and constricted pupils. If the exposure is severe, symptoms such as diarrhea, tightness in chest, slowing of pulse, and difficulty in breathing may be observed.

PRIMARY ROUTE OF E	NTRY <u>Dei</u>	<b>mal/Eye:</b> Yes	Oral: Yes	Inhalation No
ACUTE TOXICITY	Oral:	LD50 (rat): 451 mg/kg	3	
	Dermal:	LD50 (rabbit): 2723 m	ng/kg	
	Inhalation:	LC50 (rat): .98 mg/L (	4 hour study) (estimate	e based on similar product)

# OTHER TOXICOLOGICAL INFORMATION

Skin Irritation:	Mild irritant (rabbit)
Eye Irritation:	Mild transient irritant (rabbit)
Sensitizer:	Non-sensitizing (guinea pig)

# 4. FIRST AID MEASURES

Eye:	Hold eye open and flush slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin:	Remove contaminated clothing and rinse skin immediately with water for 15 – 20 minutes.
Ingestion:	Call a physician or poison control center for treatment advice. Have person sip a glass of able to swallow. Do not induce vpmiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air - if not breathing, call 911 or an ambulence, then give artificial respiration, preferably mouth-to-mouth if possible.
Note to Physician:	Propetamphos, an organophosphate compound, is a cholinesterase inhibitor. Atropine with 2-PAM is the emergency antidote if symptoms of cholinesterase inhibition are present.

# 5. FIRE FIGHTING MEASURES

NFPA Rating:	Health:	3	Fire:	2	Reactivity: 0
Flammability Class:	Combusti	ble liquid			
Flash Point:	>194F (90	C)			
Explosive Limits (% of Volume):	Not know	n			
Extinguishing Media:	Water, foa	am, CO2,	dry chemical		
Special Protective Equipment:	Firefighter breathing			e clothir	ng, eye protection and self-contained
Fire Fighting Procedures:	Do not all	ow run-off	to enter water	ways ir	habited by aquatic organisms
Combustion Products:	Possible of	oxides of s	sulfur, nitrogen	and ca	rbon from incomplete combustion
Unusual Fire/Explosion Hazards:	None				
6. ACCIDENTAL RELEASE MEASUR	ES				

Steps to be taken: Absorb all spills. Place all contaminated materials in a containe	r for disposal.
Absorbents: Clay granules, sawdust, dirt or equivalent.	
Incompatibles: Strong oxidizing agents	

# 7. HANDLING AND STORAGE

Handling:	Avoid contact with skin, eyes, and clothing. Avoid inhalation. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and change into clean clothing. Wash clothes separately from other laundry. May us detergent and hot water if no instructions for washables exist.
Storage:	Store in a cool, dry, ventilated area away from humans, pets, foodstuffs, water and feed. Do not store near heat or open flame. Keep from freezing.

## 8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits:	Not established
Ventilation:	Use with adequate ventilation.
Personal Protective Equipment:	If prolonged or excessive exposure is anticipated, it is recommended for handlers to wear a NIOSH/MSHA approved organic vapor/pesticide respirator, chemical-resistant gloves, such as barrier laminate, butyl rubber (>14 mils), neoprene rubber (>14 mils), polyvinyl chloride (PVC)(>14 mils), or viton (>14 mils) and goggles. Long sleeved shirts, long pants, shoes and socks are required. Follow manufacturer's instructions for cleaning and maintaining PPE. Remove PPE immediately after handling this product. Wash the outside of

gloves before removing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White to yellow-white milky emulsion, with orange-citrus to mild sulfurish odor.

Boiling Point:	>100C
Melting Point:	<32F (0C)
Vapor Pressure (mm Hg):	Not known
Vapor Density (Air = 1):	Not known
Specific Gravity:	1.08
Bulk Density:	9 lbs/gal
Solubility:	Emulsifies in water
Evaporation Rate:	Not known
pH:	5 - 7

## 10. STABILITY AND REACTIVITY

Stability:	Stable
Reactivity:	Non-reactive
Incompatibility w/ Other Materials:	Strong oxidizing agents
Decomposition Products:	Oxides of sulfur and nitrogen may form under conditions of extreme heat
Hazardous Polymerization:	Will not occur

## 11. TOXICOLOGICAL INFORMATION

### CHRONIC TOXICITY [Specific to Active Ingredient(s)]

No evidence of oncogenicity was observed in a chronic dietary study in rats, where propetamphos was fed continuously for 2 years at levels up to 120 ppm.

### **DEVELOPMENTAL/REPRODUCTIVE TOXICITY** [Specific to Active Ingredient(s)]

No adverse effect was observed on the reproductive performance of rats up to mid dose level of 30 ppm. At the 75 ppm level, some parameters of reproductive performance were affected. The 4 ppm dose level was suggested as the NOEL for overall effects.

#### MUTAGENICITY [Specific to Active Ingredient(s)]

Propetamphos is not considered as a mutagenic compound.

## 12. ECOLOGICAL INFORMATION

# ENVIRONMENTAL FATE [Active Ingredients Only]

Hydrolysis: 1 year (pH6) Photolysis: > 2 years Soil half life: Not applicable

Water solubility: 110 ppm

#### ECOTOXICITY [Active Ingredients Only]

Acute Toxicity: fish:LC50 (rainbow trout): 2.650 mg/L (bluegill sunfish): 1.100 mg/L (96 hour study); aquatic invertebrates:LC50 (Daphnia magna): 3.3 ug/L (48 hour study)

#### 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by disposal. **Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **Plastic Container disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

### 14. TRANSPORT INFORMATION

**DOT49CFR Description:** Consumer Commodity ORM-D

Freight Classification: Insecticides o/t poison; NMFC #102120

### **15. REGULATORY INFORMATION**

CERCLA (Superfund): Not regulated

RCRA: Not regulated as hazardous

#### SARA 311/312 HAZARD CATEGORIES

Immediate Health:	Yes (irritant)
Delayed Health:	No
Fire:	No
Sudden Pressure:	No

Reactivity: No

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.