

**MATERIAL SAFETY DATA SHEET**  
**CATALYST™ INSECTICIDE/ACARACIDE EMULSIFIABLE CONCENTRATE**

**Manufacturer:** Wellmark International  
**Address:** 1501 East Woodfield Road, Suite 200W Schaumburg, IL 60173  
**Emergency Phone:** 1-800-248-7763  
**Transportation Emergency Phone:** CANUTEC 613-996-6666

**Supplier:**

Wellmark International  
 100 Stone Road West, Suite 111, Guelph, Ontario N1G 5L3  
 1-800-263-2740

### 1. CHEMICAL PRODUCT INFORMATION

**Product Name:** Catalyst™ Insecticide/Acaracide Emulsifiable Concentrate  
**Chemical Name/Synonym:** Propetamphos: {(E)-1-methylethyl 3-[(ethylamino) methoxyphosphinothioyl]oxy}-2-butenolate  
**Chemical Family:** Organophosphate  
**Formula:** C10 H20 N O4 PS  
**PCP Registration No.:** 25,149  
**RF Number:** 9001

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
Propetamphos: {(E)-1-methylethyl 3- {{(ethylamino)methoxyphosphinothioyl}oxy}-2-butenolate}	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. Wear a long-sleeve shirt, long pants, shoes, socks, chemical resistant gloves and a NIOSH approved respirator when mixing, loading or applying and during clean-up activities. May be fatal if swallowed. Harmful if swallowed, inhaled or absorbed through the skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash contaminated clothing before reuse.

#### 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 ENTRY**    **Dermal/Eye:** Yes                      **Oral:** Yes                      **Inhalation** No

**ACUTE TOXICITY**

**Oral:** LD50 (rat): 451 mg/kg  
**Dermal:** LD50 (rabbit): 2723 mg/kg  
**Inhalation:** LC50 (rat): .98 mg/L (4 hour study) (estimate 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:** Flush with plenty of water. If irritation persists, consult a physician  
**Skin:** Wash with soap and water. Get medical attention if irritation persists.  
**Ingestion:** Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.  
**Inhalation:** Remove to clean air - if not breathing give artificial respiration, preferably mouth-to-mouth  
**Note to Physician:** Propetamphos, an organophosphate compound, is a cholinesterase inhibitor. Atropine with 2-PAM if symptoms of cholinesterase inhibition are present.

#### 5. FIRE FIGHTING MEASURES

**NFPA Rating:** **Health: 3**                      **Fire: 2**                      **Reactivity: 0**  
**Flammability Class:** Combustible liquid  
**Flash Point:** >194F (90C)  
**Explosive Limits (% of Volume):** Not known  
**Extinguishing Media:** Water, foam, CO2, dry chemical  
**Special Protective Equipment:** Firefighters should wear protective clothing, eye protection and self-contained breathing apparatus.  
**Fire Fighting Procedures:** Do not allow run-off to enter waterways inhabited by aquatic organisms  
**Combustion Products:** Possible oxides of sulfur, nitrogen and carbon from incomplete combustion  
**Unusual Fire/Explosion Hazards:** None

#### 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken:** Absorb all spills. Place all contaminated materials in a container 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  
**Storage:** Store in a cool, dry and ventilated area away from humans, pets, foodstuffs 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, impervious gloves, goggles and other appropriate clothing to avoid breathing vapors or skin contact.  
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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

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**Melting Point:** <32F (0C)

**Vapor Pressure (mm Hg):** Not known

**Vapor Density (Air = 1):** Not known

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**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 stu  
invertebrates:LC50 (Daphnia magna): 3.3 ug/L (48 hour study)

## 13. DISPOSAL CONSIDERATIONS

Triple-or pressure-rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use and dispose in accordance with Provincial requirements. For information on the disposal of unused, unwanted product, contact the manufacture or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

## 14. TRANSPORTATION INFORMATION

TDG Shipping Description	TDG Symbols	Special Shipping Information
<b>Consumer Commodity</b>	<b>N/A</b>	<b>N/A</b>

## 15. REGULATORY INFORMATION

WHMIS Classification	WHMIS Symbols	Statement
<b>Not a controlled product</b>	<b>N/A</b>	<b>This product has been regulated under the Pest Control Products Acts, and is exempt from WHMIS requirements.</b>

Other Regulatory Information:

**N/A**

## 16. OTHER INFORMATION

**None**

*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.*