



# Zenprox EC

- INTENDED FOR USE BY PEST MANAGEMENT PROFESSIONALS
- FOR USE INDOORS IN NON-FOOD/NON-FEED AREAS OF RESIDENTIAL AND COMMERCIAL FACILITIES
- BROAD SPECTRUM PEST CONTROL INCLUDING FLEAS AND BED BUGS
- KILLS NEWLY HATCHED BED BUG NYMPHS
- AIDS IN PREVENTING BED BUG EGG HATCH

## SPECIMEN LABEL

### ACTIVE INGREDIENTS:

Etofenprox (CAS #80844-07-1) ..... 16.2%

Piperonyl butoxide\* (CAS #51-03-6) ..... 64.8%

OTHER INGREDIENTS: ..... 19.0%

Total 100.0%

\* (Butyl carbityl)(6-propylpiperonyl) ether and related compounds

This formulation contains 1.4 lbs of etofenprox and 5.6 lbs of piperonyl butoxide per gallon. End use dilution is 0.25% etofenprox.

EPA Reg No. 2724-804

EPA Est. No. 2724-TX-1

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

### PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND

### DOMESTIC ANIMALS – CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Repeated exposure to etofenprox can cause skin irritation.

### FIRST AID

Call a poison control center or doctor immediately for treatment advice.

#### If swallowed

- 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 the poison control center or doctor. *(continued on next column)*

	<ul style="list-style-type: none"> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.	

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**General Directions:** ZENPROX® EC provides effective kill of fleas, cockroaches and other listed pests and can be applied as an indoor broadcast, spot, or crack and crevice treatment in homes, apartment buildings, hotels, schools, day cares, nursing homes, hospitals, office buildings, correctional facilities, commercial and industrial buildings, warehouses, non-food/non-feed handling establishments, modes of transportation, institutions.

Remove pets and birds and cover fish aquariums before spraying. Do not allow children or pets to contact treated surfaces until spray has dried. Do not apply to toys or stuffed animals or related articles. Do not apply this product in occupied patient rooms or in any rooms/areas while occupied by patients, the elderly, or infirm. Do not apply to classrooms while in use. Do not apply in institutions (including libraries, sports facilities, etc.) in the immediate area where occupants are present.

## MIXING DIRECTIONS

**ZENPROX® EC** mixes easily with water (diluent) and may be applied with most application equipment. For best results, partially fill sprayer with water (diluent), add the labeled amount of **ZENPROX® EC** and fill to the required amount of water (diluent). Diluted spray mixture may be stored overnight and used the following day, but mixture should be agitated well prior to use.

**ZENPROX® EC** in recommended dilutions is generally non-staining and should not stain surfaces that cannot be spotted or damaged by water alone, however in questionable or sensitive surfaces, apply a small amount of dilution in an inconspicuous location to evaluate. Do not apply where electrical short circuits might result. Do not enter or allow others to enter until spray has dried. Do not apply product in a way that will contact workers, other persons, or animals, either directly or through drift.

### TANK-MIXING

**ZENPROX® EC** can be mixed with EPA-registered insect growth regulators in areas where these products are registered to be applied. Please check product-specific label directions before using and the more stringent label directions will apply.

### SPECIFIC INSTRUCTIONS:

<b>Indoor Pests</b>			
Use <b>ZENPROX® EC</b> as a broadcast (general surface), spot, or crack and crevice treatment to control pests inside buildings, structures, and modes of transport. This includes homes, apartment buildings, hotels, schools, day cares, nursing homes, hospitals, office buildings, correctional facilities, commercial and industrial buildings, warehouses, non-food/non-feed handling establishments, rail cars, marine vessels, and institutions.			
Treatment	Specific Directions	Use Rate	Pests
Broadcast (General Surface)	Use a coarse, low pressure fan spray to apply the dilution uniformly over surfaces to be treated. Apply to carpets, floors, cabinets, cove base, and other areas where pests are located.	0.25% Etofenprox 2 fl oz/gallon of water (diluent)/1000 ft <sup>2</sup>	Ants, Bed Bugs, Carpet beetles, Cockroaches, Confused flour beetles, Centipedes, Crickets, Darkling beetles, Dermestids, Earwigs, Firebrats, Flies, Fleas, Fruit flies, Gnats, Indian meal moths, Lesser grain borers, Millipedes, Mosquitoes, Moths, Pillbugs, Red flour beetles, Sawtoothed grain beetles, Scorpions, Silverfish, Sowbugs, Spiders (Brown recluse, Black widow, others), Stink Bugs, Ticks, Wasps
Spot or Crack and Crevice	Use a coarse, low pressure spray or pin stream. Treat entry points such as around water pipes, doors, windows, and eaves. Treat areas where pests normally feed or hide such as baseboards, corners, around water pipes, cracks and crevices. Spot treat floor rugs, beneath furniture, in closets, and storage areas.	0.25% Etofenprox 2 fl oz/gallon of water (diluent)/1000 ft <sup>2</sup>	
Spot or Crack and Crevice for Bed Bugs Infesting Beds, Mattresses, Bedrooms and Sleeping Areas	Disassemble the bed frame and remove bedding. Do not apply product to bedding. Wash bedding and dry using medium to high heat to kill bed bugs. Use a coarse, low-pressure spray to apply to the bed frame, mattress and box spring. Application to mattresses and box springs is intended for treatment of seams, edges, and tufts only. Do not saturate the mattress and box spring. Do not treat the entire surface of the mattress or box spring. Allow spray to dry before using the mattress and/or box spring. Spot treat baseboards, behind pictures/wall hangings, rugs, and other articles in the bedroom or sleeping area.	0.25% Etofenprox 2 fl oz/gallon of water (diluent)/1000 ft <sup>2</sup>	Bed Bugs

Repeat treatments to infested areas as necessary, but not less than 14 days after the initial treatment.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide 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.

**Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available 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.

To the extent consistent with applicable law, Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

For information or in case of emergency call 1-800-248-7763.

[www.zoecon.com](http://www.zoecon.com)

Wellmark International  
1501 East Woodfield Road 200W  
Schaumburg, Illinois 60173



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April, 2013  
Schaumburg, IL

# MATERIAL SAFETY DATA SHEET

## Zoecon Zenprox EC

**Manufacturer:** Wellmark International

**Address:** 1501 East Woodfield Road, Suite 200W, Schaumburg, IL 60173

**Emergency Phone:** 800-248-7763

**Transportation Emergency Phone:** CHEMTREC: 1-800-424-9300

### 1. CHEMICAL PRODUCT INFORMATION

**Product Name:** Zoecon Zenprox EC

**Chemical Name/Synonym:** Etofenprox; 2-(4-ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether  
Piperonyl Butoxide; 5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole,

**Chemical Family:** Pyrethroid and oxidase inhibitor

**Formula:** C<sub>25</sub>H<sub>28</sub>O<sub>3</sub>, C<sub>19</sub>H<sub>30</sub>O<sub>5</sub>,

**EPA Registration No.:** 2724-804

**RF Number:** 2129 EC

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
Etofenprox	80844-07-1	16.20%	Not established
Piperonyl butoxide	51-03-6	64.80%	Not established
Inert Ingredients: (nonhazardous and/or trade secret)		19.0%	

### 3. HAZARD INFORMATION

**PRECAUTIONARY STATEMENTS:**  
**KEEP OUT OF THE REACH OF CHILDREN**  
**HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION:**  
**HARMFUL IF SWALLOWED. CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH EYES OR CLOTHING. WASH HANDS THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE TOILET. REPEATED EXPOSURE TO ETOFENPROX CAN CAUSE SKIN IRRITATION.**

**PRIMARY ROUTE OF ENTRY**    Dermal/Eye: Yes.                    Oral: No.                    Inhalation: Yes.

**ACUTE TOXICITY**

**Oral:** Harmful if swallowed

**Dermal:** No specific hazard identified

**Inhalation:** No specific hazard identified

Zoecon Zenprox EC

## OTHER TOXICOLOGICAL INFORMATION

**Skin Irritation:** Slightly irritating  
**Eye Irritation:** Moderately irritating  
**Sensitizer:** Not a skin sensitizer

### 4. FIRST AID MEASURES

- If in eyes:**
- 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.
  - Call a poison control center or doctor for treatment advice.
- If swallowed:**
- 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 by a poison control center or doctor.
  - Do not give anything to an unconscious person.

### 5. FIRE FIGHTING MEASURES

**NFPA Rating:** Health: 1 Fire: 1 Reactivity: 0  
**Flammability Class:** Class IIIB Liquid  
**Flash Point:** Not available  
**Explosive Limits (% of Volume):** Not available.  
**Extinguishing Media:** Water fog, foam, dry chemical, CO<sub>2</sub>.  
**Special Protective Equipment:** Firefighters should wear full protective clothing including self-contained breathing apparatus.  
**Fire Fighting Procedures:** Normal procedures. Do not allow fire fighting water to escape into waterways or sewers.  
**Combustion Products:** Oxides of carbon.  
**Unusual Fire/Explosion Hazards:** None known.

### 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken:** Do not allow spill to enter any waterways, particularly those inhabited by aquatic organisms. Soak up spill with absorbent material and place in container for disposal.  
**Absorbents:** Clay granules, sawdust, dirt or equivalent.  
**Incompatibles:** Strong oxidizers, strong acids, and strong alkalies.

### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.  
**Storage:** Store in a cool area away from heat or open flame. Store away from humans, pets, foodstuffs and feed.

### 8. EXPOSURE CONTROL / PERSONAL MEASURES

**Exposure Limits:** Not available.  
**Ventilation:** Use in a well ventilated area. Use local ventilation when necessary.  
**Personal Protective Equipment:** Use splash goggles or safety glasses, impervious gloves and appropriate chemical and oil resistant clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor:</b>	Straw colored liquid with faint petroleum solvent odor.
<b>Boiling Point:</b>	Not known.
<b>Melting Point:</b>	Not applicable.
<b>Vapor Pressure (mm Hg):</b>	Not known.
<b>Vapor Density (Air = 1):</b>	Not known.
<b>Specific Gravity:</b>	1.03.
<b>Bulk Density:</b>	8.6 lbs/gal.
<b>Solubility:</b>	Emulsifies in water.
<b>Evaporation Rate:</b>	Not known.
<b>pH:</b>	Not known.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Reactivity:</b>	Not reactive.
<b>Incompatibility w/ Other Materials:</b>	Strong oxidizers, strong acids, and strong alkalis.
<b>Decomposition Products:</b>	Carbon oxides, sulfur oxides.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Acute oral toxicity (rat): LD50 1,750 mg/kg  
Acute dermal toxicity: LD50 >5,000 mg/kg  
Skin irritation: Slightly irritating  
Eye irritation: Moderately irritating  
Not a dermal sensitizer

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

**Etofenprox** is not listed as a carcinogen by NTP or IARC and is not regulated by OSHA.

In rats the target organs are the liver and thyroid. The NOAEL for chronic toxicity is 3.7 mg/kg/day for male rats. The target organ in mice is the kidney. The NOAEL is 3.1 mg/kg/day for mice.

**Piperonyl butoxide:** An increase in the number of benign liver tumors in mice fed piperonyl butoxide technical at doses which far exceeded any anticipated daily human intake. Independent and industry toxicology experts have reviewed the data and agree that the findings of the study do not indicate a health risk to humans.

Carcinogenicity: NTP: No IARC: No OSHA: No

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

**Etofenprox** is not a teratogen. It does not have adverse effects on reproduction.

**Piperonyl butoxide:** There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits. It is not considered to be teratogenic.

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

**Etofenprox** is not a mutagen.

**Piperonyl butoxide** is not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberrations in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE

**Hydrolysis:** Not determined.  
**Photolysis:** Not determined.  
**Soil half life:** Not determined.  
**Water solubility:** Not determined.

### ECOTOXICITY [Active Ingredients Only]

<b>Etofenprox</b>	<b>Acute Toxicity:</b> <b>Rainbow trout:</b> LC <sub>50</sub> = 3.3 ppb. <b>Bluegill:</b> LC <sub>50</sub> = 8.5 ppb.
<b>Piperonyl butoxide</b>	<b>Acute Toxicity:</b> <b>Rainbow trout:</b> LC <sub>50</sub> = 6.12 ppm <b>Bluegill:</b> LC <sub>50</sub> = 8.5 ppb 5.37 ppm <b>Sheepshead minnow:</b> LC <sub>50</sub> = 3.94 ppm <b>Mysid shrimp:</b> LC <sub>50</sub> = 0.32 ppm

## 13. DISPOSAL CONSIDERATIONS

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

## 14. TRANSPORT INFORMATION

**DOT49CFR Description:** Not applicable.  
**Freight Classification:** Insecticides NOI NMFC 102120 CLASS 60.

## 15. REGULATORY INFORMATION

**CERCLA (Superfund):** No reportable quantity listed.  
**RCRA:** This material is not a listed or characteristic hazardous waste in its unused form.

### SARA 311/312 HAZARD CATEGORIES

**Immediate Health:** Yes.  
**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.*

Due to its acute dermal and primary dermal irritation toxicity, For retail sale only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certificate.

# ZP TRACKING POWDER

For Indoor Use Only

**KILLS HOUSE MICE**

ACTIVE INGREDIENT: Zinc Phosphide (CAS #1314-84-7): 10%  
OTHER INGREDIENTS: 90%  
TOTAL 100%

**KEEP OUT OF REACH OF CHILDREN  
DANGER - POISON - PELIGRO**



See back panel for First Aid and additional precautionary statements.

**NET WEIGHT: 1.1 lbs (500 g)**

EPA REG. NO.: 12455-16 EPA EST. NO.: 12455-WF-1



Manufactured By:  
3689 Kresman Blvd.  
Madison, WI 53704 U.S.A.  
www.bellabs.com

Have the product container or label with you when calling a poison control center or for treatment. You may also contact 1-877-354-7474 for emergency medical treatment. If you experience signs and symptoms such as nausea, abdominal pain, light, or weakness, see a physician immediately. For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-658-7374.

**IF SWALLOWED:**

- Call a poison control center or doctor immediately for treatment advice or transport the patient to the nearest hospital.
- Do not drink water.
- Do not administer anything by mouth or induce vomiting unless told to do so by the poison control center or doctor.

**IF ON SKIN OR CLOTHING:**

- 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.

**IF INHALED:**

- Move person to fresh air.
- If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

**TREATMENT FOR PET POISONING**

If a pet has had contact with this product, call a veterinarian at once.

**NOTE TO PHYSICIAN OR VETERINARIAN**

Contains the phosphine-producing active, Zinc Phosphide. Probable mucosal damage may contraindicate the use of gastric lavage. For animals ingesting bait and/or showing poisoning signs, induce vomiting by using hydrogen peroxide. Sodium bicarbonate can be given orally to neutralize the stomach acidity. The stomach and intestinal tract can be evacuated, oxygen administered and cardiac and circulatory stimulants given.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READ THIS LABEL:** Read this entire label and follow all use directions, restrictions and precautions.

**USE RESTRICTIONS:**

- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Only trained handlers may be in the area during application.
- Keep all other persons out of the treated area during application.

This product may only be used for the control of house mice (Mus musculus) inside homes, industrial and agricultural buildings, and similar man-made structures. The only exception is that the product may also be used from the outside of the building for structural voids.

- Apply only in locations inaccessible to children, pets, or domestic animals.
- Do not place bait near or inside ventilation duct openings.
- If using this product in agricultural buildings where livestock heads are stored, or in commercial food service, food manufacturing, or food processing establishments, limit treatments to concealed, inaccessible places such as spaces between floors and walls. Do not apply tracking powder along walls, in corners, or in open floor areas of rooms in which food or feed is handled or stored. Do not apply ZP TRACKING POWDER in areas where there is a possibility of contaminating water, food, feed, rodents, tool or feed handling equipment, or milk or meat handling equipment or surfaces that come in direct contact with food.

**APPLICATION DIRECTIONS:**

**SELECTION OF TREATMENT AREAS:** Determine dry, acid-free areas where house mice will most likely pick up ZP TRACKING POWDER on their feet or fur and ingest it during grooming. Generally, these areas are along walls, by grained openings, in corners and concealed places, in spaces between floors and walls, or in locations where house mice or their signs have been observed. Remove goods prior directly on floor and place on studs. Use boxes or other obstacles to force house mice to travel through congested areas. When using this product in homes, only treat in concealed, inaccessible places such as spaces between floors and walls.

**TRACKING POWDER:** is approximately 3 by 2 1/2 inch patches. Using a hand-powered duster, dust into wall voids or spaces between floors. While wearing waterproof gloves, where accessible, collect and dispose of all dead animals. Maintain ZP Tracking Powder in treated areas for seven days or until fresh signs of mouse activity cease to appear. Clean up any powder that is accessible and dispose of in accordance with disposal directions.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
Fatal if swallowed. Fatal if absorbed through the skin. Causes skin burns. Harmful if inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Any person who removes carcasses or unused bait involving use of this product must wear waterproof gloves.

**Personal Protective Equipment (PPE)**

- All handlers, including loaders and applicators must wear:
- Chemical resistant gloves
- Chemical resistant shoes plus socks
- Waterproof gloves
- When mixing and loading, wear a chemical resistant apron.
- When cleaning equipment, wear a chemical resistant apron.

Follow every requirements. Follow manufacturer's instructions for cleaning/emptying, separating from other laundry. Wash the outside of gloves before removing. Remove PPE immediately after handling this product.

**Clean Safety Recommendations**

- Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is extremely toxic to birds, fish and other wildlife. Dogs, cats and other animals may be poisoned if fed upon animals that have eaten this bait. Do not contaminate water when disposing of equipment wash water or rinsate.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. (Pesticide) Offer for recycling or reconditioning, or purchase and dispose of in a sanitary landfill.



**DISCLAIMER:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.