



## Safety Data Sheet

### Section 1: Identification

#### Product identifier

**Product Name** • Zoecon Zenprox EC

**Synonyms** • 100506231; EPA Reg. No.: 2724-804; RF2129EC

**Product Description** • Straw-colored liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** • Insecticide.

**Restrictions on use** • Avoid contact with skin and eyes. Keep out of reach of children and pets. Do not take internally.

#### Details of the supplier of the safety data sheet

**Manufacturer** • Wellmark International

1501 E. Woodfield Road 200W  
Schaumburg, IL 60173  
United States

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

#### Emergency telephone number

**Manufacturer** • 1-800-248-7763

**Manufacturer (Transportation)** • 1-800-424-9300 - CHEMTREC

**Manufacturer (Transportation)** • 1-703-527-3887 - CHEMTREC Outside US Collect Calls accepted

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

**OSHA HCS 2012**

- Skin Irritation 2
- Eye Mild Irritation 2B
- Acute Toxicity Oral 4

#### Label elements

**OSHA HCS 2012**

#### WARNING



- Hazard statements**
- Harmful if swallowed
  - Causes skin irritation
  - Causes eye irritation

### Precautionary statements

- Prevention**
- Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Wear protective gloves.
- Response**
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
Rinse mouth.
  - IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.
- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Other hazards

#### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

Composition		
Chemical Name	Identifiers	%
Etofenprox	CAS:80844-07-1	16.2%
Piperonyl butoxide	CAS:51-03-6	64.8%
2-Ethylhexanol	CAS:104-76-7	2.31% TO 2.97%
Other ingredients	NDA	> 16%

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms persist.

#### Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

#### Eye

- IF IN EYES: Rinse with water for several minutes. Get medical attention if symptoms occur.

#### Ingestion

- IF SWALLOWED: Do not induce vomiting unless told to by a poison control center or doctor. Rinse mouth. Get medical attention if symptoms occur.

### Most important symptoms and effects, both acute and delayed

- Causes skin irritation. Causes eye irritation. Harmful if swallowed. Refer to Section 11 - Toxicological Information.

## Indication of any immediate medical attention and special treatment needed

### Notes to Physician

- Treat symptomatically and supportively.

## Section 5: Fire-Fighting Measures

### Extinguishing media

**Suitable Extinguishing Media** • Use water fog, foam, carbon dioxide, or dry chemical.

**Unsuitable Extinguishing Media** • Avoid heavy hose streams.

### Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • No data available.

**Hazardous Combustion Products** • Thermal decomposition may release toxic fumes which may include carbon dioxide and carbon monoxide.

### Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • Use appropriate Personal Protective Equipment (PPE). Ventilate enclosed areas. Avoid contact with skin and eyes.

**Emergency Procedures** • Ventilate closed spaces before entering. Avoid release into the environment.

### Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Containment/Clean-up Measures** • Stop leak if you can do it without risk.  
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.  
LARGE SPILLS: Dike far ahead of spill for later disposal.

## Section 7 - Handling and Storage

### Precautions for safe handling

**Handling** • Use good safety and industrial hygiene practices. Avoid contact with skin or eyes.

### Conditions for safe storage, including any incompatibilities

**Storage** • Keep this product in its tightly closed original container, when not in use. Store in a cool, dry area that is inaccessible to children and pets. Protect from freezing or high temperatures.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

### Exposure controls

**Engineering** • Use adequate ventilation to remove vapors (fumes, dust etc)

## Measures/Controls

### Personal Protective Equipment

#### Pictograms



<b>Respiratory</b>	• In case of insufficient ventilation, use NIOSH approved respiratory protection.
<b>Eye/Face</b>	• Wear chemical splash safety goggles.
<b>Hands</b>	• Wear protective gloves.
<b>Skin/Body</b>	• It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.
<b>Environmental Exposure Controls</b>	• Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

#### Material Description

Physical Form	Liquid	Appearance/Description	Straw-colored liquid.
Color	Straw colored.	Odor	Faint petroleum.
Odor Threshold	No data available		

#### General Properties

Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	5.09 @ 25 C(77 F)
Specific Gravity/Relative Density	= 1.03 @ 20 C(68 F) Water=1	Water Solubility	Emulsifies
Viscosity	< 100 Centipoise (cPs, cP) or mPas @ 20 C(68 F)		

#### Volatility

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		

#### Flammability

Flash Point	112 C(233.6 F) PMCC (Pensky-Martins Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Not Flammable.		

#### Environmental

Octanol/Water Partition coefficient	No data available		
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## Section 10: Stability and Reactivity

### Reactivity

- No dangerous reaction known under conditions of normal use.

### Chemical stability

- Stable under normal temperatures and pressures.

### Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### Conditions to avoid

- Excessive heat and freezing conditions. Keep from direct sunlight.

**Incompatible materials**

- Strong oxidizing agents.

**Hazardous decomposition products**

- Thermal decomposition may produce toxic gases including carbon dioxide and carbon monoxide.

**Section 11 - Toxicological Information****Information on toxicological effects**

	CAS	
Zoecon Zenprox EC	NDA	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1750 mg/kg; Inhalation-Rat LC50 • >2.07 mg/L 4 Hour(s); Skin-Rat LD50 • >5000 mg/kg; <b>Irritation:</b> Eye-Rabbit • Moderate irritation; Skin-Rabbit • Mild irritation

GHS Properties	Classification
<b>Respiratory sensitization</b>	OSHA HCS 2012 • Classification criteria not met
<b>Serious eye damage/Irritation</b>	OSHA HCS 2012 • Eye Mild Irritation 2B
<b>Acute toxicity</b>	OSHA HCS 2012 • Acute Toxicity - Oral 4
<b>Aspiration Hazard</b>	OSHA HCS 2012 • Classification criteria not met
<b>Carcinogenicity</b>	OSHA HCS 2012 • Classification criteria not met
<b>Germ Cell Mutagenicity</b>	OSHA HCS 2012 • Classification criteria not met
<b>Skin corrosion/Irritation</b>	OSHA HCS 2012 • Skin Irritation 2
<b>Skin sensitization</b>	OSHA HCS 2012 • Classification criteria not met
<b>STOT-RE</b>	OSHA HCS 2012 • Classification criteria not met
<b>STOT-SE</b>	OSHA HCS 2012 • Classification criteria not met
<b>Toxicity for Reproduction</b>	OSHA HCS 2012 • Classification criteria not met

**Route(s) of entry/exposure** • Inhalation, Skin, Eye, Ingestion.

**Potential Health Effects****Inhalation**

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • No data available.

**Skin**

**Acute (Immediate)** • Causes skin irritation.

**Chronic (Delayed)** • Prolonged and repeated exposure to Etofenprox can cause skin irritation.

**Eye**

**Acute (Immediate)** • Causes eye irritation.

**Chronic (Delayed)** • No data available.

**Ingestion**

**Acute (Immediate)** • Harmful if swallowed.

**Chronic (Delayed)** • No data available.

**Mutagenic Effects**

• Piperonyl butoxide was not genotoxic in several tests, including the Ames mutagenicity assay, chromosome aberration 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. Etofenprox has been found negative for mutagenicity potential using the Ames test, chromosomal aberration and micronucleus test methods.

**Carcinogenic Effects**

- Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA. Etofenprox is not classified as carcinogen by NTP, IARC and OSHA.

**Reproductive Effects**

- Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters (except weight gain) in tests with rats and rabbits. Etofenprox did not produce teratogenic or reproductive effects in laboratory experiments.

**Section 12 - Ecological Information****Toxicity**

Components		
Etofenprox (16.2%)	80844-07-1	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Sheepshead minnow</i> >0.0165 mg/L 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.0027 mg/L <b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) LC50 <i>Water Flea Daphnia magna</i> 0.0008 mg/L 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.0000188 mg/L NOEC <i>Water Flea Daphnia magna</i> 0.00017 mg/L
Piperonyl butoxide (64.8%)	51-03-6	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow Trout</i> 1.9 mg/L [Acute] 96 Hour(s) LC50 <i>Sheepshead minnow</i> 3.94 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.04 mg/L [Chronic] <i>Fathead minnow</i> 0.11 mg/L [Chronic LOEC] <b>Aquatic Toxicity-Crustacea:</b> <i>Daphnia magna</i> 0.047 mg/L [Chronic LOEC] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.51 mg/L [Acute] 48 Hour(s) LC50 <i>Mysid shrimp</i> 0.49 mg/L [Acute] NOEC <i>Daphnia magna</i> 0.03 mg/L [Chronic]

**Persistence and degradability**

- No data available

**Bioaccumulative potential**

- No data available.

**Mobility in Soil**

- No data available

**Other adverse effects**

- No data available.

**Section 13 - Disposal Considerations****Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not empty into drains.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

**Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
		Bulk packaging: Environmentally Hazardous			

DOT	UN3082	Substance, Liquid, n.o.s. (Etofenprox, Piperonyl butoxide)	9	III	Marine Pollutant
IMO/IMDG	UN3082	Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Etofenprox, Piperonyl butoxide)	9	III	Marine Pollutant
IATA/ICAO	UN3082	Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Etofenprox, Piperonyl butoxide)	9	III	Acute Aquatic Toxicity

**Special precautions for user**

- None known.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Other information**

**IMO/IMDG** • No data available

**IATA/ICAO** • No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications**

- SARA Title III Section 313, Acute

### FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

### CAUTION

**Precautionary Statements**

- KEEP OUT OF THE REACH OF CHILDREN.

**Hazards to Humans and Domestic Animals**

- 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. Do not give anything mouth to an unconscious person. 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 eye.

### Inventory

Component	CAS	TSCA
2-Ethylhexanol	104-76-7	Yes
Etofenprox	80844-07-1	No
Piperonyl butoxide	51-03-6	Yes

### United States

#### Environment

##### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- 2-Ethylhexanol

104-76-7

Not Listed

• Etofenprox	80844-07-1	Not Listed
• Piperonyl butoxide	51-03-6	1.0 % de minimis concentration

## Section 16 - Other Information

<b>Revision Date</b>	• 25/November/2015
<b>Last Revision Date</b>	• 25/November/2015
<b>Preparation Date</b>	• 25/November/2015
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