

**GOLDEN PRO 440EC™**  
**MATERIAL SAFETY DATA SHEET**

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**SECTION 1 Chemical product and Company identification**

Product Name: Golden Pro 440EC™

Chemical name: *O*-4-bromo-2-chlorophenyl *O*-ethyl *S*-propyl phosphorothioate, *a*-cyano-(3-phenoxyphenyl)methyl-*cis, trans*-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate Formula: C<sub>11</sub>H<sub>15</sub>BrClO<sub>3</sub>PS & C<sub>22</sub>H<sub>19</sub>Cl<sub>2</sub>NO<sub>3</sub>

Product Use: Commercial insecticide.

Supplier: SINERIA HOLLAND BV  
Randwycksingel 20-A015  
6229 EE Maastricht The Netherlands  
www.sineria.com

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**SECTION 2 Composition/Information on Ingredients**

<u>Product Name</u>	<u>Wt. (%)</u>	<u>CAS RN</u>
Cypermethrin	4	52315-07-8
Profenofos	40	41198-08-7

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**SECTION 3 Hazards Identification**

**HEALTH EFFECTS**

**Acute**

- Caution. Hazard to humans and domestic animals. Keep out of reach of children.
- Acute if Ingested.

Eye: Immediate effects, avoid contact with eyes.

Skin: Harmful if absorbed through skin. Avoid contact with skin or clothing. Skin contact may aggravate existing skin disease.

Inhalation: Harmful if inhaled. Avoid breathing dust. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. CHRONIC:



#### SECTION 4 First Aid Measures

Ingestion: Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have a person sip a glass of water if able to swallow. Do not induce vomiting or give anything by mouth to an unconscious person.  
Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Skin Contact: 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.

Inhalation: Move person to fresh air. If person is not breathing, call an ambulance, and then give artificial respiration. Call a poison control center or doctor for further treatment.

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#### SECTION 5 Fire Fighting Measures

Suitable extinguish media: Dry chemical, carbon dioxide, foam and water.

Flash Point: 167°C

Fire fighting instructions: As in any fire, wear self-contained breathing apparatus pressure-demand and full protection gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Avoid breathing vapors.

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#### SECTION 6 Accidental release measures

General and disposal: Use proper protective equipment to minimize personal exposure. Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with regulations.

Land spill or leaks:

*Small spill:* Absorb with an inert absorbent material such as granular clay, saw dust or pet litter. Sweep up carefully while avoiding the formulation of a dust cloud. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

*Large spill:* Eliminate all ignition sources. Stop leak if you can do so without coming into contact with spilled material. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs.



## SECTION 7 Handling and storage

Handling: Avoid contact with eyes or clothing. Do not use near heat or open fire.

Users Should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Store in a cool and dry place out of reach of children. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

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## SECTION 8 Exposure controls/Personal protection

- Control airborne concentrations below the exposure guidelines. Local exhaust ventilation may be necessary.

Eye and face protections: Safety glasses, splash goggles or face-shield.

Skin protections: Long-sleeved shirt and long pants waterproof gloves chemical-resistant footwear. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash hand thoroughly after handling.

Respiratory protection: Ensure adequate ventilation. If not adequate, use a chemical cartridge-type respirator.

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## SECTION 9 Physical & Chemical properties

Appearance: Liquid

Flash point: 167°C

Molecular Weight: 373.6

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## SECTION 10 Stability & Reactivity

Stability: Stable under normal conditions. Relatively stable under neutral and slightly acidic conditions. Unstable under alkaline conditions.

Hazardous Polymerization: Will not occur

Conditions to Avoid: NA

Instability: Not Known

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## SECTION 11 Toxicological Information

### Profenofos

Acute oral: LD50 for Rats 358, for Rabbits 700 mg/kg.

Skin and eye: Acute percutaneous LD50 for Rats c. 3300, Rabbits 472 mg/kg. \

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Non-irritant to the skin and eyes of rabbits.

Inhalation LC50 (4 h): for rats c. 3 mg/l air.

NOEL: (using EC formulation 380 g a.i./l) for rats (2 y) 0.3 mg a.i./kg diet;  
for lifetime study 1.0 mg a.i./kg diet; for mice 0.08 mg/kg diet.

ADI (JMPR): 0.01 mg/kg b.w.

### **Cypermethrin**

Acute oral: LD50 for Rats 250-4150 (tech. 7180), Mice 138 mg/kg.

Skin and eye: Acute percutaneous LD50 for rats >4920, rabbits >2460 mg/kg.

Mild skin and eye irritant (rabbits).

May be a weak skin sensitiser.

Inhalation LC50 (4 h): for rats 2.5 mg/l.

NOEL: (2 y) for dogs 5, rats 7.5 mg/kg.

ADI (JECFA evaluation): 0.05 mg/kg b.w. [1996]; (JMPR) 0.05 mg/kg b.w.

**Other**: Oral toxicity values for cypermethrin depend on such factors as: carrier, *cis:trans* ratio of the sample, species, sex, age and degree of fasting. Values reported sometimes differ.

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## **SECTION 12 Ecological Information**

### **Profenofos**

Birds : LC50 (8d) for bobwhite quail 70-200, Japanese quail >1000, mallard ducks 150-612 ppm.

Fish: LC50 (96h) for rainbow trout 0.08, crucian carp 0.09, bluegill sunfish 0.3mg/l.

Algae: Toxic to algae.

Other aquatic spp.: Highly toxic to crustaceans.

Bees: Toxic to bees.

Worms: Practically non-toxic to earthworms.

### **Cypermethrin**

Birds: Acute oral LD50 for mallard ducks >10 000, chickens >2000 mg/kg.

Fish: LC50 (96 h) for rainbow trout 0.69, sheepshead minnow 2.37ug/l; under field conditions, fish are not at risk from normal agricultural usage.

Daphnia: LC50 (48 h) 0.15ug/l.

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Bees: Highly toxic to honeybees in laboratory tests, but field applications at recommended dosages do not put hives at risk. LD50 µg/bee (24h) oral: 0.035 µg/bee, topical 0.02 µg/bee.

Other beneficial spp.: Not toxic to Collembola

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### **SECTION 13 Disposal Considerations**

Do not contaminate water, food, or feed by disposal. Empty containers should be triple rinsed into the spray tank during operation. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incinerating, or if allowed, by burning. If burned, stay out of smoke.

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### **SECTION 14 Transport Information**

DOT/IATA/IMO: UN No.: 3018

UN Hazard Class: 6.1

Packing Group: III

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### **SECTION 15 Regulatory Information**

Symbol: Xn

Indication of danger: Harmful

#### **Risk phrase(s)**

R 20/22: Harmful by inhalation and if swallowed.

R 36/37: Irritating to eyes and respiratory system.

R 43: May cause sensitization by skin contact.

R 50: Very toxic to aquatic organisms.

R 57: Toxic to bees.

#### **Safety phrases**

S 2: Keep out of reach children.

S 13: Keep away from food, drink and animal feeding stuffs.

S 23: Do not breathe vapour/spray.

S 24/25: Avoid contact with skin and eye

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 61: Avoid release to the environment

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#### **SECTION 16 Other Information**

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for use with other materials or in processes other than those specifically described herein.

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