



## MATERIAL SAFETY DATA SHEET

Syngenta Crop Protection, Inc  
Post Office Box 18300  
Greensboro, NC 27419

In Case of Emergency, Call

1-800-888-8372

### 1. CHEMICAL IDENTIFICATION

Product Name: **PRECISION** Product No.: A-7699 A  
EPA Signal Word: Caution  
Active Ingredient(%): Fenoxycarb (25%) CAS No.: 72490-01-8  
Chemical Name: Ethyl(2-[4-phenoxyphenoxy]ethyl)carbamate  
Chemical Class: Carbamate (non-cholinesterase inhibiting) Insecticide

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Kaolin Clay	15 mg/m <sup>3</sup> (Total Dust);5 mg/m <sup>3</sup> (Respirable)	2 mg/m <sup>3</sup> (Respirable)	Not Established	No
Surfactant	Not Established	Not Established	Not Established	No
Dispersing Agent	Not Established	Not Established	15 mg/m <sup>3</sup> (Total Dust)*	No
Sodium Sulfite	Not Established	Not Established	Not Established	IARC, 3
Fenoxycarb (25%)	Not Established	Not Established	Not Established	No

\* recommended by manufacturer

### 3. HAZARDS IDENTIFICATION

#### Symptoms of Acute Exposure

Exposure may cause slight irritation to eyes.

#### Hazardous Decomposition Products

None Known

#### Physical Properties

Appearance: Beige Powder

Odor: Clay-Like

#### Unusual Fire, Explosion and Reactivity Hazards

None Known

### 4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

#### Notes to Physician

There is no specific antidote if this product is ingested.

If a large amount has been ingested and emesis is inadequate, lavage stomach.

The active ingredient of this product has a high affinity for activated charcoal. Five mg/kg activated charcoal suspension (50g/400ml water) can be given to absorb the remaining toxicant.

This product is a carbamate-type (non-cholinesterase inhibiting) insecticide.

Treat symptomatically.

#### Medical Condition Likely to be Aggravated by Exposure

None Known

## **5. FIRE FIGHTING MEASURES**

### Fire and Explosion

Flash Point (Test Method): Not Applicable

Flammable Limits (% in Air): Lower: %; Upper: % Not Applicable

Autoignition Temperature: Not Available

Flammability: Not Flammable (DOT 49CFR 173.124)

### Unusual Fire, Explosion and Reactivity Hazards

None Known

### In Case of Fire

Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus.

Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

Prevent use of contaminated buildings, area, and equipment until decontaminated.

## **6. ACCIDENTAL RELEASE MEASURES**

### In Case of Spill or Leak

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present. For small spills, sweep up, keeping dust to a minimum, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner.

Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

## **7. HANDLING AND STORAGE**

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.  
Inhalation: To avoid breathing dust, use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Beige Powder  
Odor: Clay-Like  
Melting Point: 128-129°F  
Boiling Point: Not Applicable  
Specific Gravity/Density: 0.25 g/cc  
pH: 6-9(1% solution in H<sub>2</sub>O @ 25°C)

### Solubility in H<sub>2</sub>O

Fenoxycarb : 5.660 mg/L @ 25°C

### Vapor Pressure

Fenoxycarb : 7.80E-03 mPa @ 20°C

## 10. STABILITY AND REACTIVITY

### Reactivity

Stability: Stable  
Hazardous Polymerization: Will Not Occur  
Conditions to Avoid: None Known

### Hazardous Decomposition Products

None Known

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies

Ingestion: Practically Non-Toxic  
Oral LD50 (Rat) : > 5,000 mg/kg body weight  
Dermal: Slightly Toxic  
Dermal LD50 (Rabbit) : > 2,000 mg/kg body weight  
Inhalation: Slightly Toxic  
Inhalation LC50 (Rat) : > 3.48 mg/l air - 4 hours  
Eye Contact: Slightly Irritating (Rabbit)  
Skin Contact: Non-Irritating (Rabbit)  
Skin Sensitization: Not a Sensitizer (Guinea Pig)

### Mutagenic Potential

Fenoxycarb: None observed

### Reproductive Hazard Potential

Fenoxycarb: None observed

### Chronic/Subchronic Toxicity Studies

Fenoxycarb: Liver effects at high doses (rats, mice and dogs)

### Carcinogenic Potential

Fenoxycarb: None observed (rats); liver and lung tumors at high doses (mice)

### Other Toxicity Information

Not Available

### Toxicity of Other Components

Dispersing Agent

Exposure can result in eye, skin and respiratory tract irritation.

#### Kaolin Clay

Long term overexposure to high concentrations of this dust without the use of a respirator may produce x-ray evidence of dust in the lungs and may affect respiratory function.

#### Surfactant

Can be moderately irritating to eyes and skin.

#### Target Organs

##### Active Ingredients

Fenoxycarb : Lung and Liver

##### Inert Ingredients

Dispersing Agent : Eyes, Skin and Respiratory Tract

Kaolin Clay : Respiratory Tract

Surfactant : Skin and Eyes

## 12. ECOLOGICAL INFORMATION

#### Summary of Effects

##### Fenoxycarb:

Toxic to fish and invertebrates; however, rapid degradation mitigates effects.

#### Eco-Acute Toxicity

Fenoxycarb: Rainbow Trout 96-hour LC50 0.66 ppm  
Bluegill Sunfish 96-hour LC50 0.74 ppm  
Daphnia magna 48-hour LC50 0.6 ppm  
Bobwhite Oral LD50 >7,000 mg/kg  
Mallard Oral LD50 >3,000 mg/kg  
Bobwhite 8-day Dietary LC50 >5,620 ppm  
Mallard 8-day Dietary LC50 >20,000 ppm

#### Eco-Chronic Toxicity

Fenoxycarb: Invertebrate (Daphnia Magna) Life Cycle MATC 1.6 ppt (trillion)  
Mallard Reproduction NOEC 48.0 ppb  
Bobwhite Reproduction NOEC 160 ppm  
Fish (Fathead minnow) Early Life Stage NOEL 400 ppm

#### Environmental Fate

##### Fenoxycarb:

No data available for the formulation. The information presented here is for the active ingredient, fenoxycarb. A thorough review of environmental information is not possible in this document. For additional information call the toll free number listed in Section 16.

##### ENVIRONMENTAL PERSISTENCE/MOBILITY:

Stable in sterile water, in the dark at pH 5, 7 and 9, but degrades rapidly in the light at pH 7 (t<sub>1/2</sub> ~ 18-23 d). Stable in laboratory soil, in the light, but degradation in the dark under aerobic and anaerobic conditions varies with soil texture, application methodology and whether soil is US or foreign (t<sub>1/2</sub> ~ 0.28 d to 3.5 mo). Low to slight mobility with five soil textures (Koc = 1251 to 2599).

## 13. DISPOSAL CONSIDERATION

#### Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

## 14. TRANSPORT INFORMATION

### DOT Classification:

Not Applicable; No Label or Placard Required

### B/L Freight Classification

Insecticides or Fungicides; Agricultural, N.O.S.

### International Transportation

Not Applicable

## 15. REGULATORY INFORMATION

### SARA Title III Classification

Section 311/312:            Acute Health Hazard  
   Chronic Health Hazard

Section 313 chemical(s): Fenoxycarb (25%) (CAS No. 72490-01-8)

### Proposition 65

Not Applicable

### CERCLA Reportable Quantity (RQ)

None

### RCRA Classification

Not Applicable

### TSCA Status

Exempt from TSCA

## 16. OTHER INFORMATION

### NFPA Hazard Ratings

Health:                    1  
Flammability:            0  
Reactivity:                0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Questions concerning the safe handling of the product should be referred to:

1-800-334-9481

Issued Date:            3/5/1993

Revised Date:         11/4/1998

Supersedes:            8/5/1998

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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