



## 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: **PEAK** Product No.: A-9417 A  
EPA Signal Word: Caution  
Active Ingredient(%): Prosulfuron (57%) CAS No.: 94125-34-5  
Chemical Name: 1-(4-methoxy-6-methyltriazin-2-yl)-3-[2-(3,3,3-trifluoropropyl)-phenylsulfonyl]-urea  
Chemical Class: Sulfonyl Urea Herbicide

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Surfactant	Not Established	Not Established	15 mg/m <sup>3</sup> (Total Dust)*	No
Sodium Sulfite	Not Established	Not Established	Not Established	IARC, 3
Dispersing Agent	15 mg/m <sup>3</sup> (Total Dust)	10 mg/m <sup>3</sup> (Total Dust)	Not Established	No
Potassium Sulfate	Not Established	Not Established	Not Established	No
Surfactant	Not Established	Not Established	Not Established	No
	Not Established	Not Established	Not Established	No
Prosulfuron (57%)	Not Established	Not Established	Not Established	No

\* recommended by manufacturer

### 3. HAZARDS IDENTIFICATION

#### Symptoms of Acute Exposure

Exposure may result in slight eye irritation.

#### Hazardous Decomposition Products

None Known

#### Physical Properties

Appearance: Tan Granules

Odor: Sweet Odor

#### 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, immediately 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.

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: 400 °C
- Flammability: Not Flammable

### Unusual Fire, Explosion and Reactivity Hazards

None Known

### In Case of Fire

Use dry chemical, foam, or CO<sub>2</sub> 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: Tan Granules  
Odor: Sweet Odor  
Melting Point: 155°C  
Boiling Point: Not Applicable  
Specific Gravity/Density: 0.47 g/cc  
pH: 5-6(1% solution in H<sub>2</sub>O @ 25°C)

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

Prosulfuron : 29.000 mg/L @ 25°C

### Vapor Pressure

Prosulfuron : 3.50E-03 mPA @ 25°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: Slightly Toxic  
Oral LD50 (Rat) : 4,360 mg/kg body weight  
Dermal: Slightly Toxic  
Dermal LD50 (Rabbit) : > 2,020 mg/kg body weight  
Inhalation: Practically Non-Toxic  
Inhalation LC50 (Rat) : > 5.14 mg/l air - 4 hours  
Eye Contact: Minimally Irritating (Rabbit)  
Skin Contact: Non-Irritating (Rabbit)  
Skin Sensitization: Not a Sensitizer (Guinea Pig)

### Mutagenic Potential

Prosulfuron: None observed

### Reproductive Hazard Potential

Prosulfuron: None observed

### Chronic/Subchronic Toxicity Studies

Prosulfuron: Liver, kidneys, heart, blood, hemopoietic system, mammary gland, uterus and peripheral nervous system effects at high doses.

### Carcinogenic Potential

Prosulfuron: None observed

### Other Toxicity Information

Not Available

### Toxicity of Other Components

Dispersing Agent

Dust may produce a respiratory allergenic response and/or irritation in some individuals. May cause severe eye injury but the damage is reversible.

Potassium Sulfate

Possible nuisance dust effects, sneezing or coughing. Potassium poisoning may occur in rare cases of long exposure or ingestion.

Surfactant

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

Surfactant

Exposure may cause severe irritation with moderate corneal injury. Excessive exposure by inhalation may cause irritation to upper respiratory tract and lungs.

Surfactant

Exposure may cause severe irritation to eyes. Skin contact will result in moderate irritation. Excessive exposure by inhalation may cause irritation to upper respiratory tract and lungs.

Surfactant

Exposure may cause severe irritation to eyes. Skin contact will result in moderate irritation. Excessive exposure by inhalation may cause irritation to upper respiratory tract and lungs.

Target Organs

Active Ingredients

Prosulfuron : Liver, Kidneys, Heart, Blood, Hemopoietic System, Mammary Glands, Uterus and Nervous System

Inert Ingredients

Dispersing Agent : Not Available

Potassium Sulfate : None Known

Surfactant : Eyes, Skin and Respiratory Tract

Surfactant : Eyes

Surfactant : Eyes

Surfactant : Eyes

**12. ECOLOGICAL INFORMATION**

Summary of Effects

Prosulfuron:

Nontoxic to birds, fish and invertebrates.

Eco-Acute Toxicity

Prosulfuron: Rainbow Trout 96-hour LC50 >160 ppm  
Bluegill Sunfish 96-hour LC50 >155 ppm  
Daphnia magna 48-hour LC50 >120 ppm  
Bobwhite Oral LD50 >2,150 mg/kg  
Mallard Oral LD50 1,094 mg/kg  
Bobwhite 8-day Dietary LC50 >5,000 ppm  
Mallard 8-day Dietary LC50 >5,000 ppm

Eco-Chronic Toxicity

Prosulfuron: Fish (Fathead minnow) Early Life Stage MATC 150 ppm  
Invertebrate (Daphnia Magna) Life Cycle MATC 148 ppm  
Mallard Reproduction NOEC 28 ppm  
Bobwhite Reproduction NOEC 350 ppm

Environmental Fate

Prosulfuron:

No data available for the formulation. The information presented below is for the active ingredient, prosulfuron. 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:**

Degrades more rapidly in water, in the dark at pH 5 ( $t_{1/2} = 10d$ ), than at pH 7 and 9 ( $t_{1/2} \sim > 1 \text{ yr}$ ), but more rapidly in the light at pH 9 ( $t_{1/2} \sim 5 \text{ mo}$ ) than in the dark. In soil, degrades similarly in the dark or light, under aerobic and anaerobic conditions ( $t_{1/2} \sim 3 \text{ to } 6 \text{ mo}$ ). Very high mobility in various soils ( $K_{oc} = 15.25 \text{ to } 41.30$ ).

### 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

Compound; Weed Killing (Herbicide), 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): Not Applicable

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: 1/27/1994

Revised Date: 4/8/1999

Supersedes: 8/7/1998

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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