

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

**In Case of Emergency, Call**  
**1-800-888-8372**

**1. PRODUCT IDENTIFICATION**

Product Name:	<b>SUPREND</b>	Product No.:	A12474A
EPA Signal Word:	Caution		
Active Ingredient(%):	Prometryn (79.30%)	CAS No.:	7287-19-6
Chemical Name:	2,4-bis(isopropylamino)-6-(methylthio)-s-triazine		
Chemical Class:	Triazine Herbicide		
Active Ingredient(%):	Trifloxysulfuron-Sodium (0.70%)	CAS No.:	199119-58-9
Chemical Name:	N-[(4,6-Dimethoxy-2-pyrimidinyl)amino]carbonyl-3-(2,2,2-trifluoro-ethoxy)-pyridin-2-sulfonamide sodium salt		
Chemical Class:	Sulfonylurea Herbicide		
EPA Registration Number(s):	100-1163	Section(s) Revised:	<b>2, 8, 14</b>

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Kaolin Clay	15 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> TWA (respirable)	2 mg/m <sup>3</sup> TWA (respirable)	10 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> TWA (respirable)**	No
Crystalline Silica, Quartz	10 mg/m <sup>3</sup> /(%SiO <sub>2</sub> +2) (respirable dust)	0.05 mg/m <sup>3</sup> (respirable silica)	0.05 mg/m <sup>3</sup> (respirable dust)**	IARC Group 2A
Stabilizer	15 mg/m <sup>3</sup> particulates not otherwise regulated (total particulates); 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> particulates not otherwise classified (inhalable); 3 mg/m <sup>3</sup> (respirable)	Not Established	No
Prometryn (79.30%)	Not Established	Not Established	Not Established	No
Trifloxysulfuron-Sodium (0.70%)	Not Established	Not Established	10 mg/m <sup>3</sup> TWA***	No

\*\* recommended by NIOSH

\*\*\* Syngenta Occupational Exposure Limit (OEL)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.  
 Syngenta Hazard Category: B

**3. HAZARDS IDENTIFICATION**
Symptoms of Acute Exposure

Causes mild eye and skin irritation.

Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases.

Physical Properties

Appearance: Light brown to brown granules

Odor: Not determined

#### Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

### **4. FIRST AID MEASURES**

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

- Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

#### Notes to Physician

There is no specific antidote if this product is ingested.

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: % Not Applicable Upper: % Not Applicable
- Autoignition Temperature: Not Available
- Flammability: Not Applicable

#### Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

#### 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. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

### **6. ACCIDENTAL RELEASE MEASURES**

#### In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

### **7. HANDLING AND STORAGE**

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

FOR COMMERCIAL APPLICATIONS AND/OR 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. Wash thoroughly with soap and water after handling.
Eye Contact:	Where eye contact is likely, use chemical splash goggles.
Skin Contact:	Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.
Inhalation:	A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, or P or HE filter.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light brown to brown granules
Odor:	Not determined
Melting Point:	Not Available
Boiling Point:	Not Applicable
Specific Gravity/Density:	0.50 g/cm <sup>3</sup>
pH:	7 - 11 (1% w/w dilution in deionized water)

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

Prometryn:	33 mg/l @ 72°F (22°C)
Trifloxysulfuron-Sodium :	102.5mg/l @ 77°F (25°C) (pH 5.4)

### Vapor Pressure

Prometryn:	1.24 x 10 <sup>(-6)</sup> mmHg @ 77°F (25°C)
Trifloxysulfuron-Sodium :	7.5 x 10 <sup>(-8)</sup> mmHg @ 77°F (25°C)

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.
Materials to Avoid:	None known.
Hazardous Decomposition Products:	Can decompose at high temperatures forming toxic gases.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies (Finished Product)

Ingestion:	<u>Slightly Toxic</u>	
	Oral (LD50 Rat) :	> 2,000 mg/kg body weight
Dermal:	<u>Practically Non-Toxic</u>	
	Dermal (LD50 Rat) :	> 5,000 mg/kg body weight
Inhalation:	<u>Practically Non-Toxic</u>	
	Inhalation (LC50 Rat) :	> 5.14 mg/l air - 4 hours
Eye Contact:	Mildly Irritating (Rabbit)	
Skin Contact:	Slightly Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Guinea Pig)	

### Reproductive/Developmental Effects

Prometryn: None observed.  
Trifloxysulfuron-Sodium : Mutagenic Potential in Vitro: Negative cytogenetic test CHO cells. Negative Ames test.  
Mutagenic Potential in Vivo: Negative mouse micronucleus test.

#### Chronic/Subchronic Toxicity Studies

Prometryn: Liver, kidney and bone marrow changes at highest dose (dogs); Kidney effects (rats).  
Trifloxysulfuron-Sodium : Not Available

#### Carcinogenicity

Prometryn: None observed.  
Trifloxysulfuron-Sodium : Not Available

#### Other Toxicity Information

None

#### Toxicity of Other Components

##### Kaolin Clay

Long term exposure to high concentrations of this dust may produce x-ray evidence of dust in the lungs. Continued long term overexposure may affect respiratory function in some individuals.

##### Stabilizer

Effects of overexposure: No information found for this material. It is anticipated that inhalation of significant quantities of this material will produce decreased lung capacity as is typical of nuisance dusts. Individuals who are sensitized to formaldehyde might exhibit allergic reactions from contact with this material.

#### Target Organs

##### Active Ingredients

Prometryn: Liver, kidney, bone marrow  
Trifloxysulfuron-Sodium : Not Available

##### Inert Ingredients

Kaolin Clay: Lung  
Stabilizer: Lung

## **12. ECOLOGICAL INFORMATION**

#### Summary of Effects

##### Prometryn:

Practically nontoxic to birds. Slightly toxic to aquatic invertebrates and moderately toxic to fish.

##### Trifloxysulfuron-Sodium :

Practically non-toxic to fish, invertebrates, birds and bees.

#### Eco-Acute Toxicity

##### Prometryn:

Bees LC50/EC50 > 97 ug/bee  
Invertebrates (Water Flea) LC50/EC50 18.6 ppm  
Fish (Trout) LC50/EC50 2.9 ppm  
Fish (Bluegill) LC50/EC50 10 ppm  
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,000 ppm  
Birds (8-day dietary - Mallard Duck) LC50/EC50 > 42,766

##### Trifloxysulfuron-Sodium :

Bees LC50/EC50 > 25 ug/bee  
Invertebrates (Water Flea) LC50/EC50 > 108 ppm  
Fish (Trout) LC50/EC50 103 ppm  
Fish (Bluegill) LC50/EC50 103 ppm  
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 5,620 ppm  
Birds (8-day dietary - Mallard Duck) LC50/EC50 5,620 ppm

### Eco-Chronic Toxicity

Prometryn: Fish (Fathead minnow) Early Life Stage MATC 1.06 mg/L  
Invertebrate (Daphnia Magna) Life Cycle MATC 1.4 mg/L  
Mallard Reproduction NOEC 500 ppm  
Bobwhite Reproduction NOEC 50 ppm

Trifloxysulfuron-Sodium : Not Available

### Environmental Fate

Prometryn:

The information presented here is for the active ingredient, prometryn.  
Low bioaccumulation potential. Persistent in soil. Stable in water. Moderate mobility in soil. Sinks in water (after 24 h).

Trifloxysulfuron-Sodium :

The information presented here is for the active ingredient, trifloxysulfuron-sodium.  
Not persistent in soil or water. Highly mobile in soil. Will leach. Sinks in water (after 24 h).

## **13. DISPOSAL CONSIDERATIONS**

### 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

Ground Transport - NAFTA

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Prometryn, Trifloxysulfuron-Sodium)

Hazard Class or Division: Class 9

Identification Number: UN 3077

Packing Group: PG III

### B/L Freight Classification

Herbicides, NOIBN

### Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Prometryn, Trifloxysulfuron-Sodium)

Hazard Class or Division: Class 9

Identification Number: UN 3077

Packing Group: PG III

Air Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Prometryn, Trifloxysulfuron-Sodium)

Hazard Class or Division: Class 9

Identification Number: UN 3077

Packing Group: PG III

## **15. REGULATORY INFORMATION**

### EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Prometryn (79.30%) (CAS No. 7287-19-6)

### California Proposition 65

Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)

None

RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

**16. OTHER INFORMATION**

NFPA Hazard Ratings

Health: 1  
Flammability: 1  
Instability: 0

HMIS Hazard Ratings

Health: 1  
Flammability: 1  
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 08/18/2003

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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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End of MSDS