

# 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: **PRIME+ EC** Product No.: A6623C **EPA Signal Word:** Danger CAS No.: 62924-70-3 Active Ingredient(%): Flumetralin (15.0%) Chemical Name: 2-chloro-N-[2,6-dinitro-4-(trifluomethyl)phenyl]-N-ethyl-6-fluorobenzenemethanamine Chemical Class: Dinitroaniline Plant Growth Regulator EPA Registration Number(s): 100-640 Section(s) Revised: 2, 9, 13

# 2. HAZARDS IDENTIFICATION

#### Health and Environmental

Corrosive to the eyes. May cause severe injury including blindness. Harmful if inhaled. May be harmful if swallowed or in contact with skin. Causes eye, skin and respiratory passage irritation. May cause an allergic skin reaction. Vapors may cause drowsiness or dizziness. May be harmful if swallowed and enters airway.

Flammable liquid and vapor.

Hazardous Decomposition Products

None known.

**Physical Properties** 

Appearance: Clear orange liquid

Odor: Aromatic solvent

Unusual Fire, Explosion and Reactivity Hazards

Flammable liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Petroleum Solvent	Not Established	Not Established	100 mg/m <sup>3</sup> TWA *	No
Propylene Glycol	Not Established	Not Established	10 mg/m <sup>3</sup> TWA ****	No
1,2,4-Trimethylbenzene (< 20%)	Not Established	25 ppm TWA	25 ppm TWA **	No
Ethyl Benzene (< 5%)	100 ppm TWA	100 ppm TWA; 125 ppm STEL	100 ppm TWA; 125 ppm STEL **	IARC Group 2B
Xylene (< 15%)	100 ppm TWA	100 ppm TWA; 150 ppm STEL	100 ppm TWA **	IARC Group 3
Flumetralin (15.0%)	Not Established	Not Established	8 mg/m <sup>3</sup> TWA ***	No

\* recommended by manufacturer

- \*\* recommended by NIOSH
- \*\*\* Syngenta Occupational Exposure Limit (OEL)
- \*\*\*\* Recommended by AIHA (American Industrial Hygiene Association)

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

### 4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison contol 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. Do not give any liquid to the person. 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.

Probable mucosal damage may contraindicate gastric lavage.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Medical Condition Likely to be Aggravated by Exposure None known.

### **5. FIRE FIGHTING MEASURES**

Fire and Explosion

Flash Point (Test Method):	104°F (Closed Cup)	
Flammable Limits (% in Air):	Lower: Not Applicable	Upper: Not Applicable
Autoignition Temperature:	>752°F	
Flammability:	Flammable liquid and vapor	

Unusual Fire, Explosion and Reactivity Hazards

Flammable liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

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

In Case of Fire

Use appropriate extinguishing media for flammables in the area. 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

Product Name: **PRIME+ EC** 

In Case of Spill or Leak

Warning: Flammable vapors may be present. Eliminate sources of ignition and ventilate spill area. Use non-sparking cleanup equipment to prevent vapor ignition.

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. Cover entire spill with absorbing material and place into 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

Protect from light and humidity.

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 AND PACKAGING 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. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Skin Contact:	Where contact is likely, wear chemical-resistant (such as barrier laminate or Viton) gloves, coveralls, socks and chemical-resistant footwear.
Inhalation:	A combination particulate/ organic vapor respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an HE prefilter.
	Use a self contained broothing encountry in coses of emergency spills, when expective levels are unknown, or

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear orange liquid
Odor:	Aromatic solvent
Melting Point:	Not Applicable
Boiling Point:	293 °F
Specific Gravity/Density:	1.004 g/ml
pH:	6.6 (1%)
Solubility in H2O	
Flumetralin:	0.1 mg/l @ 77°F (25°C)
Vapor Pressure	
Flumetralin:	< 9.8 x 10(-7) mmHg @ 68°F (20°C)
10. STABILITY AND R	EACTIVITY
Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization	Will not occur.

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Flame, heat, ignition sources.

Product Name: **PRIME+EC** 

Materials to Avoid:

Strong oxidizers. Mildly corrosive to steel and tinplate. None known.

# **11. TOXICOLOGICAL INFORMATION**

Hazardous Decomposition Products:

<b>1. TOXICOLOGICA</b>	AL INFORMATION	
Acute Toxicity/Irritation	on Studies (Finished Product)	
Dermal:	Oral (LD50 Rabbit) :	4400 mg/kg body weight
	Dermal (LD50 Rat) :	2010 mg/kg body weight
Inhalation:		
	Inhalation (LC50 Rat) :	> 2.5 mg/l air - 4 hours
Eye Contact:	Corrosive (Rabbit)	
Skin Contact:	Moderately Irritating (Rabbit)	
Skin Sensitization:	Sensitizing (Guinea Pig)	
Reproductive/Develop Flumetralin: None		
Chronic/Subchronic To Flumetralin: Liver,	-	t the highest dose level (dogs); Effects on liver (rats)
Carcinogenicity Flumetralin: None	observed.	
Other Toxicity Information None	tion	
Toxicity of Other Comp	oonents	
1,2,4-Trimethylbenz		
	reported in Section 11 for the final pr nzene in the formulation.	roduct take into account any acute hazards related to the 1,2,4-
Ethyl Benzene (< 5	%)	
	reported in Section 11 for the final pr the formulation.	oduct take into account any acute hazards related to the ethyl
Petroleum Solvent		
Respiratory	rirritation, dizziness, nausea, loss of c	onsciousness.
Propylene Glycol		
propylene g Reported to	glycol in the formulation.	roduct take into account any acute hazards related to the sion (anesthesia, dizziness, confusion), headache and nausea.
Xylene (<15%)		
Test results in the form	1 1	oduct take into account any acute hazards related to the xylene
Target Organs		
Active Ingredients Flumetralin: Blood,	liver, spleen	
Inert Ingredients	· 1	
•	ene: Not Applicable	
Ethyl Benzene: Not		
•	Respiratory tract, CNS, skin	
	_ <del>.</del> .	

Product Name: PRIME+ EC

# **12. ECOLOGICAL INFORMATION**

### Ecotoxicity Effects

Flumetralin:

Fish (Rainbow Trout) 96-hour LC50 > 3.2 ppb Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 > 2.8 ppb Bird (Bobwhite Quail) 21-day LD50 > 2150 mg/kg

Environmental Fate

Flumetralin:

The information presented here is for the active ingredient, flumetralin. Low bioaccumulation potential. Stable in soil and water. Immobile in soil. 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: Ignitable D001

Listed Waste: Not Applicable

### **14. TRANSPORT INFORMATION**

DOT Classification

Ground Transport - NAFTA Proper Shipping Name: Flammable Liquid, N.O.S. (1,2,4-Trimethylbenzene/Xylene) Hazard Class or Division: Class 3 Identification Number: UN 1993 Packing Group: PG III

Air Transport - NAFTA Proper Shipping Name: Flammable Liquid, N.O.S. (1,2,4-Trimethylbenzene/Xylene) Hazard Class or Division: Class 3 Identification Number: UN 1993 Packing Group: PG III Packing Instruction: 309/310 - Max. inner package 10 liters; Max. single package 60 liters passenger, 220 liters cargo

### Comments

Water Transport - International Proper Shipping Name: Flammable Liquid, N.O.S. (1,2,4-Trimethylbenzene/Xylene), Marine Pollutant Hazard Class or Division: Class 3 Identification Number: UN 1993 Packing Group: PG III IMDG EMS #: F-E, S-E

Air Transport - International Proper Shipping Name: Flammable Liquid, N.O.S. (1,2,4-Trimethylbenzene/Xylene) Hazard Class or Division: Class 3

### Product Name: **PRIME+ EC**

### **15. REGULATORY INFORMATION**

EPCRA SARA Title III Classification
Section 311/312 Hazard Classes: Acute Health Hazard
Chronic Health Hazard
Fire Hazard
Section 313 Toxic Chemicals: Flumetralin (15.0%) (CAS No. 62924-70-3)
1,2,4-Trimethylbenzene (< 20%) (CAS No. 95-63-6)</li>
Ethyl Benzene (< 5%) (CAS No. 100-41-4)</li>
Xylene (< 15%) (CAS No. 1330-20-7)</li>

Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)

Report product spills > 85 gal. (based on xylene [RQ = 100 lbs.] content in the formulation)

RCRA Hazardous Waste Classification (40 CFR 261)

Ignitable D001

TSCA Status

Exempt from TSCA, subject to FIFRA

### **16. OTHER INFORMATION**

NFPA Hazard Ratings		HMIS Hazard Ratings		0	Minimal
Health:	3	Health:	2	1	Slight
Flammability:	3	Flammability:	3	2	Moderate
Instability:	0	Reactivity:	0	3	Serious
J		5		4	Extreme

For non-emergency questions about this product call:

1-800-334-9481 11/25/1985

Original Issued Date:	11/25/1985		
Revision Date:	6/24/2010	Replaces:	10/23/2009

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.

End of MSDS