# FOXFIRE

Date: 7/15/2015 Replaces: 3/6/2015



#### **1. PRODUCT IDENTIFICATION**

FOXFIRE HERBICIDE
A17713B
Herbicide
Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

#### Emergency Phone: 1-800-888-8372

#### 2. HAZARDS IDENTIFICATION

Classifications:	Skin Corrosion/Irritation: Category 2 Inhalation: Category 3 Skin Sensitizer: Category 1B Reproductive Toxicity: Category 2 Specific Target Organ Toxicity: Repeated Category 2 Specific Target Organ Toxicity: Respiratory Irritation Category 3 Aspiration Hazard: Category 1 Flammable Liquid: Category 4 Eye Damage/Irritation: Category 2B Carcinogenicity: Category 1B
Signal Word (OSHA):	Danger
Hazard Statements:	Combustible liquid May be fatal if swallowed and enters airways Causes skin irritation May cause an allergic skin reaction Causes eye irritation Toxic if inhaled May cause respiratory irritation May cause cancer Suspected of damaging fertility or the unborn child May cause damage to organs through prolonged or repeated exposure

Hazard Symbols:



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Da	te: 7/15/2015	
Replac	es: 3/6/2015	
Pre	ecautionary Statements:	If swallowed: Immediately call a poison center, doctor or Syngenta.
		If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		Do NOT induce vomiting.
		If eye irritation persists: Get medical advice.
		Obtain special instructions before use.
		Do not handle until all safety precautions have been read and understood.
		Keep away from heat, sparks, open flames, hot surfaces. No smoking.
		Do not breathe mist, vapors, spray.
		Wash hands and face thoroughly after handling.
		Use only outdoors or in a well-ventilated area.
		Contaminated work clothing must not be allowed out of the workplace.
		Wear protective gloves, protective clothing, eye protection.
		If on skin: Wash with plenty of soap and water.
		If skin irritation or rash occurs: Get medical advice.
		If inhaled: Remove person to fresh air and keep comfortable for breathing.
		If exposed or concerned: Get medical advice/attention.
		Call a poison center, doctor or Syngenta.
		Get medical advice if you feel unwell.
		See Section 4 First Aid Measures.
		Take off contaminated clothing and wash it before reuse.
		In case of fire: Use dry chemical, foam or CO2 for extinction.
		Store in a well-ventilated place. Keep cool.
		Store locked up.
		Dispose of contents and container in accordance with local regulations.
Oth	ner Hazard Statements:	None

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Naphthalene	Naphthalene	91-20-3	<1.0%
Tetrahydrofurfuryl Alcohol (THFA)	Tetrahydrofurfuryl Alcohol (THFA)	97-99-4	Trade Secret
Cloquintocet-Mexyl	Cloquintocet-Mexyl	99607-70-2	2.5%
Petroleum Solvent	Petroleum Solvent	Trade Secret	Trade Secret
Other ingredients	Other ingredients	Trade Secret	<86.48%
(D+)-ethyl 2-(4-(6-chloro-2- benzoxazolyloxy)-phenoxy)propanoate	Fenoxaprop-P-Ethyl	71283-80-2	5.01%
Propanoic acid, 2,2-dimethyl-,8-(2,6- diethyl-4-methylphenyl)-1,2,4,5-tetrahydro- 7-oxo-7H-pyrazolo[1,2- d][1,4,5]oxadiazepin-9-yl ester	Pinoxaden	243973-20-8	5.01%

# syngenta®

## FOXFIRE

 Date:
 7/15/2015

 Replaces:
 3/6/2015

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

#### 4. FIRST AID MEASURES

Have the product container, label or 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.

Most important symptoms/effects:

Eye irritation

Skin irritation

Allergic skin reaction

Respiratory irritation

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

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.

#### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

Combustible 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.

Special protective equipment and precautions for firefighters:

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.

# FOXFIRE

Date: 7/15/2015 Replaces: 3/6/2015



#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

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 outlined in Section 8. 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, seal container and arrange for disposition.

#### 7. HANDLING AND STORAGE

Precautions for safe handling:

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.

Conditions for safe storage, including any incompatibilities: Store locked up.

#### 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.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Naphthalene	10 ppm TWA	10 ppm TWA (skin)	10 ppm TWA	NIOSH
Tetrahydrofurfuryl Alcohol (THFA)	Not Established	Not Established	0.5 ppm TWA	AIHA
Cloquintocet-Mexyl	Not Established	Not Established	5 mg/m³ TWA	Syngenta
Petroleum Solvent	Not Established	Not Established	100 mg/m³ (15 ppm) TWA based on total hydrocarbon	Manufacturer
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Fenoxaprop-P-Ethyl	Not Established	Not Established	0.1 mg/m³ TWA	Manufacturer
Pinoxaden	Not Established	Not Established	0.1 mg/m <sup>3</sup> (ceiling)	Syngenta

#### Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

#### Individual protection measures:

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.

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# FOXFIRE

Date: 7/15/2015 Replaces: 3/6/2015

#### 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 gloves (such as barrier laminate, butyl rubber, nitrile rubber or Viton), coveralls, socks and chemical-resistant footwear.

#### Inhalation:

A combination particulate/organic vapor respirator should be used until effective engineering controls are installed to comply with occupational exposure limits, or until exposure limits are established. Use a NIOSH certified respirator with an organic vapor (OV) cartridge or canister with any R, P or HE filter.

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: Golden liquid
Odor: Aromatic
Odor Threshold: Not Available
pH: 5.1 (1% solution in deionized H2O @ 77°F [25°C])
Melting point/freezing point: Not Applicable
Initial boiling point and boiling range: Not Available
Flash Point (Test Method): 176°F (Pensky-Martens CC)
Flammable Limits (% in Air): Not Available
Flammability: Combustible liquid
Vapor Pressure: Fenoxaprop-P-Ethyl 1.4 x 10(-6) mmHg @ 68°F (20°C)
Pinoxaden 3.5 x 10(-9) mmHg @ 77°F (25°C)
Vapor Density: Not Available
Relative Density: 0.9974 g/cm <sup>3</sup> ; 8.323 lbs/gal @ 68°F (20°C)
Solubility (ies): Fenoxaprop-P-Ethyl 0.7 - 0.8 mg/l @ 77°F (25°C)
Pinoxaden 200 mg/l @ 77°F (25°C)
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: 554°F
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None

#### **10. STABILITY AND REACTIVITY**

Reactivity: Not reactive. Chemical stability: Stable under normal use and storage conditions. Possibility of hazardous reactions: Will not occur. Conditions to Avoid: None known.



FOXFIRE			
Date:	7/15/2015		
Replaces:	3/6/2015		
Incompatible	materials:	None known.	
Hazardous D	ecompositio	n Products: None known.	
11. TOXICOLOGI	CAL INFORI	MATION	
Health effects	information		
Likely routes of	of exposure:	Dermal, Inhalation	
Symptoms of	exposure:	Eye irritation, Skin irritation,	Respiratory irritation
Delayed, imm	ediate and cl	nronic effects of exposure:	Eye irritation, Skin irritation, Allergic skin reaction, Respiratory irritation
Numerical me	asures of to	kicity (acute toxicity/irritation	studies (finished product))
Ingestion:		Oral (LD50 Female Rat) :	5000 mg/kg body weight
Dermal:		Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:		Inhalation (LC50 Male Rat)	: 0.53 - 2.48 mg/l air - 4 hours
Eye Conta	ict:	Moderately Irritating (Rabbi	it)
Skin Conta	act:	Moderately Irritating (Rabbi	it)

Skin Sensitization: Sensitizing (Guinea Pig)

#### Reproductive/Developmental Effects

Fenoxaprop-P-Ethyl : In developmental studies, effects were seen in the mother and the pups in the high dose groups. The manufacturer does not consider these results as being significant. However, the compound has been reviewed by the European Food Safety Authority (EFSA), and the classification "Toxic to reproduction", category 3 (R63) has been proposed to the European Chemicals Agency (EChA).

Pinoxaden: Teratogenicity: Not teratogenic in rats or rabbits. Reproduction: No reproductive effects observed.

#### Chronic/Subchronic Toxicity Studies

Fenoxaprop-P-Ethyl: Not Available

Pinoxaden: Subchronic: Predominantly kidney and liver effects at high doses. Chronic: Predominantly kidney and liver effects at high doses. Neurotoxicity: No neurotoxic effects (acute or subchronic).

#### **Carcinogenicity**

Fenoxaprop-P-Ethyl : In vitro and in vivo mutagenicity tests to not indicate genotoxic activity. Did not show carcinogenic effects in animal experiments. Pinoxaden: No compound-related tumors in rats or mice.

Chemical Name	NTP/IARC/OSHA Carcinogen
Naphthalene	See "Toxicity", Sec. 11
Tetrahydrofurfuryl Alcohol (THFA)	No
Cloquintocet-Mexyl	No
Petroleum Solvent	No
Other ingredients	No

# FOXFIRE

Date: 7/15/2015 Replaces: 3/6/2015



(D+)-ethyl 2-(4-(6-chloro-2-benzoxazoly phenoxy)propanoate	loxy)- No
Propanoic acid, 2,2-dimethyl-,8-(2,6-die methylphenyl)-1,2,4,5-tetrahydro-7-oxo pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl e	-7H-
Other Toxicity Information	
None	
Toxicity of Other Components	
Cloquintocet-Mexyl	
Causes mild eye and skin i	rritation. Toxic if inhaled or swallowed. May cause sensitization by skin contact.
Naphthalene	
	an cause cataracts, liver damage, kidney failure, respiratory failure, hematuria, od cells, leukocytosis, or coma. en Human Carcinogen
Other ingredients	
Not Applicable	
above ambient) are irritatin anaesthesia, drowsiness, u inhaled.	tation. High vapor/aerosol concentrations (attainable at elevated temperatures well g to the eyes and respiratory tract, and may cause headaches, dizziness, nconsciousness and other central nervous effects. May be harmful if swallowed and
Tetrahydrofurfuryl Alcohol (THFA)	d Causaa raaniratan (traat irritation Causaa akin irritation May aayaa digaatiya traat
irritation. Causes severe e	d. Causes respiratory tract irritation. Causes skin irritation. May cause digestive tract ye irritation. Inhalation overexposure may cause dizziness, incoordination and overexposure may affect the kidney.
Target Organs	
Active Ingredients	
Fenoxaprop-P-Ethyl :	Liver, eye
Pinoxaden:	Kidney
Inert Ingredients	
Cloquintocet-Mexyl:	Eye, skin, lung, digestive tract
Naphthalene:	Eye, liver, kidney, respiratory tract, blood, CNS
Other ingredients:	Not Applicable
Other ingredients.	
Petroleum Solvent:	Eye, skin, CNS, respiratory tract

#### **12. ECOLOGICAL INFORMATION**

Eco-Acute Toxicity
Fenoxaprop-P-Ethyl :
Fish (Bluegill Sunfish) 96-hour LC50 0.31 - 0.58 mg/l
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 > 1.058 mg/l
Bird (Bobwhite Quail) LD50 > 2000 mg/kg

## FOXFIRE

Date: 7/15/2015 Replaces: 3/6/2015

#### Pinoxaden:

Fish (Rainbow Trout) 96-hour LC50 10.3 mg/l (Dynamic conditions)

Green Algae 72-hour ErC50 41 mg/l

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 52 mg/l

**Environmental Fate** 

Fenoxaprop-P-Ethyl :

The information presented here is for the active ingredient, fenoxaprop-p-ethyl.

Slightly soluble in water, absorbs strongly to soils, and has low mobility.

#### Pinoxaden:

The information presented here is for the active ingredient, pinoxaden. Compound degrades rapidly in the environment with a DT50 of less than 5 days in field and laboratory studies.

#### 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 < 119 gallons: Not regulated > 119 gallons: Proper Shipping Name: Compounds, Weed Killing, Liquid, (Naphthalene, Petroleum Solvents) Hazard Class: Combustible Liquid Identification Number: NA 1993 Packing Group: PG III

Cargo Tanks: Proper Shipping Name: Compounds, Weed Killing, Liquid, (Naphthalene, Petroleum Solvents) Hazard Class: Combustible Liquid Identification Number: NA 1993 Packing Group: PG III

#### RQ Naphthalene = 100 pounds

#### Comments

Water Transport - International Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Fenoxaprop-P-Ethyl), Marine Pollutant Hazard Class: Class 9 Identification Number: UN 3082 Packing Group: PG III

Air Transport Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Fenoxaprop-P-Ethyl) Hazard Class: Class 9 Identification Number: UN 3082 Packing Group: PG III

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## FOXFIRE

Date: 7/15/2015 Replaces: 3/6/2015



# Replaces: 3/6/2015 15. REGULATORY INFORMATION

Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Warning: Causes skin irritation. Harmful if swallowed. Causes moderate eye irritation. Do not get on skin or on clothing. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EPA Registration Number(s):

100-1429

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes:	Acute Health Hazard
	Chronic Health Hazard
	Fire Hazard
Section 313 Toxic Chemicals:	Naphthalene <1.0% (CAS No. 91-20-3)

CERCLA/SARA 304 Reportable Quantity (RQ):

Report product spills > 3600 gal (based on naphthalene [RQ = 100 lbs.] content in the formulation) RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:

Exempt from TSCA, subject to FIFRA

#### **16. OTHER INFORMATION**

PA Hazard Ratings		HMIS Hazard Rating	<u>s</u>	(	) Minimal
Health:	3	Health:		3	I Slight
Flammability:	2	Flammability:		2 2	2 Moderate
Instability:	0	Reactivity:		0	3 Serious
				4	1 Extreme
Syngenta Haz	ard Category: C,S	5			* Chronic
Original Jacuard Data	0/00/0044	1-000-354-9	401		
		1-800-334-9	481		
Original Issued Date:	8/30/2011		0/0/0045		
Revision Date:	7/15/2015	Replaces:	3/6/2015		
Section(s) Revised:	2, 4, 11				
The information and However, no guarant information contained	ee or warranty of a		•		

# FOXFIRE

Date: 7/15/2015 Replaces: 3/6/2015

