






Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE	
		

Issued Date 18-Apr-2007

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1. PRODUCT AND COMPANY IDENTIFICATION

UPI
 630 Freedom Business Center
 Suite 402
 King of Prussia, PA 19406

Emergency Telephone Number
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
 Medical: Rocky Mountain Poison Control Center
 (866) 673-6671 (24hrs)

<u>Company Information</u>	<u>Contact Information</u>	<u>Phone Number</u>	<u>Available Hrs</u>
UPI	Customer Service	1-800-438-6071	8:00 am to 5:00 pm EST
	R&D Technical Service	610-223-2180	8:00 am - 5:00 pm (EST)

Product Name UltraBlazer Herbicide
EPA Reg # 70506-60
Recommended Use Herbicide
Product Code 12U-106

2. HAZARDS IDENTIFICATION

Emergency Overview

Causes irreversible eye damage
Harmful by inhalation, in contact with skin and if swallowed
Irritating to skin
Contains Butyl Cellosolve. Inhalation of Butyl Cellosolve causes lung, liver, kidney and blood changes in laboratory animals.

DANGER!

Appearance Light, to, Dark amber.

Physical State Liquid.

Odor Unusual.

Potential Health Effects

- Inhalation
- Skin contact

Acute Effects

Existing medical conditions aggravated by exposure to butyl cellosolve: Individuals with existing hemolytic disorders.

Eyes

Risk of serious damage to eyes. Causes irreversible eye damage.

Skin

Severely irritating to the skin.

Ingestion

Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Butyl cellosolve	111-76-2	8.5	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*
Acifluorfen, sodium salt	62476-59-9	20.1	N/A

4. FIRST AID MEASURES

Eye Contact

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 a poison control center or doctor for treatment advice.

Skin Contact

Rinse skin immediately with plenty of water for 15-20 minutes
If skin irritation persists, call a physician

Inhalation

If breathing is irregular or stopped, administer artificial respiration
May cause allergic respiratory reaction
Call a physician or poison control center immediately

Ingestion	Call a physician or poison control center immediately May produce an allergic reaction Never give anything by mouth to an unconscious person Do not induce vomiting unless told to do so by a poison control center or doctor
Notes to Physician	No information available

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point

210 F

Autoignition Temperature

Not available

Flammability Limits in Air

Not available

Extnguishing Media

Water spray, Carbon dioxide (CO2), Dry chemical.

Fire/Explosion Hazard

Toxic materials (hydrogen chloride, hydrogen fluoride, nitrogen oxide) may be generated in a fire.

Hazardous Combustion Products

Elevated temperatures can cause decomposition to potentially toxic gases.

NFPA

Health 2

Flammability 1

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with the skin and the eyes. Use personal protective equipment.
Environmental Precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.
Methods for Clean-up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe vapours or spray mist. Keep from freezing. Wash thoroughly after handling.
Storage	Keep from freezing. Maintain at temperatures above 40 F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	Butyl cellosolve
ACGIH TLV	TWA: 20 ppm
OSHA PEL	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*

Engineering Controls

Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

Personal Protective Equipment

Eye/face Protection

Use eye protection to avoid eye contact. Goggles. Where there is potential for eye contact have eye flushing equipment available.

Skin Protection

Chemical resistant gloves. Long sleeved clothing. Long pants. Socks and footwear.

Respiratory Protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light to Dark amber	Odor	Unusual
Physical State	Liquid	pH	8.2
Boiling Point/Range	217 °F	Melting Point/Range	Not available
Specific Gravity	1.18 g/ml	Solubility	Soluble
Evaporation Rate	Not available	Vapor pressure	17 @ 20 C
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	no data available
Bulk Density	9.82 lb/gal	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Conditions to Avoid Freezing temperatures

Incompatible Materials	oxidizers
Hazardous Decomposition Products	Oxides of carbon and nitrogen Hydrogen chloride Hydrogen fluoride
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Ultra Blazer:
Acute oral LD50 : 2,020 mg/kg (female rats)
Acute dermal LD50: >2,000 mg/kg (rats)
Inhalation : 2.04 mg/L (rat, 4 hr)
Skin Irritation : Moderately irritating to the skin (rabbit)
Sensitization : Not a sensitizer (guinea pig)

Component Information

Butyl cellosolve:
Butyl cellosolve is irritating to the skin and eyes but is not a dermal sensitizer. Developmental toxicity was noted in rats exposed to 100 ppm by inhalation in the presence of maternal toxicity. However, no developmental toxicity was observed in rats and rabbits by oral ingestion. Chronic exposure may cause liver damage and hemolytic disorders.

Chronic Toxicity

Carcinogenicity

Sodium acifluorfen, the active ingredient has been designated as a probable human carcinogen by US EPA. Butyl cellosolve, an ingredient in this product, has been designated as a possible human carcinogen by the US EPA.

Chemical Name	ACGIH	IARC	NTP	OSHA
Butyl cellosolve	A3	Group 3		

12. ECOLOGICAL INFORMATION

Ecotoxicity

Sodium acifluorfen-

Aquatic:

Rainbow trout, 96 hr LC50 = 54 mg ai/L
Bluegill sunfish, 96 hr LC 50 = 31 mg ai/L (static)
Daphnia magna, 48 hr EC50 = 28 mg ai/L
Channel catfish, 96 hr LC50 = 80 mg/L
Grass shrimp, 96 hr LC50 = 189 mg/L
Fiddler Crab 96 hr LC50 = >1,000 mg/L
Freshwater clam, 96 hr LC50 = 64 mg ai/L
Eastern oyster, 48 hr C50 = 31.3 mg ai/L

Avian:

Bobwhite quail, LC50 >10,000 mg/kg
Mallard duck, LC50 >10,000 mg/kg.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated Packaging

Non refillable container. Do not reuse this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Butyl cellosolve	Present	X		X	(7)-97 (2)-407	X	KE-04134	X
Acifluorfen, sodium salt	Present		X	X		X		X

USA

Federal Regulations

SARA 313
SARA 313

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Acifluorfen, sodium salt	62476-59-9	20.1	1.0

SARA 311/312 Hazardous Categorization

Chronic Health Hazard	Yes
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No

12U-106
UltraBlazer Herbicide

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Reactive Hazard

No

Clean Water Act

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Butyl cellosolve	111-76-2	8.5		Group I		

CERCLA

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Butyl cellosolve 111-76-2 (8.5)			X	
Acifluorfen, sodium salt 62476-59-9 (20.1)			X	

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65	Non-additive, corrosive chemical type
Acifluorfen, sodium salt	62476-59-9	Carcinogen	Carcinogen	

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Butyl cellosolve	X	X	X	X	
Acifluorfen, sodium salt		X			

International Regulations

Mexico - Grade

Mexico - Grade

Component	Category	Carcinogen Status	Exposure Limits
Butyl cellosolve 111-76-2 (8.5)			Mexico: TWA 26 ppm Mexico: TWA 120 mg/m ³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m ³
Acifluorfen, sodium salt 62476-59-9 (20.1)	Carcinogen		

Canada

12U-106
UltraBlazer Herbicide

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
Not determined

Chemical Name	NPRI
Butyl cellosolve	X

16. OTHER INFORMATION

Revision Date 27-Aug-2013

Revision Summary
Recurrent confirmation/update of data

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End of MSDS