



United Phosphorus, Inc.

NFPA	PPE		

Issued Date 12-Dec-2007

Revision Date 23-Jan-2012

Revision Number: 1

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 R&D Technical Service	1-800-438-6071 610-878-6100	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)

Product Name Blazer Herbicide
EPA Reg # 70506-60 / PCP # 23315
Recommended Use herbicide
Product Code 12U-104CAN

2. HAZARDS IDENTIFICATION

Emergency Overview
 Causes irreversible eye damage

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. Mild.
--	-------------------------------	----------------------------

Potential Health Effects

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

Eyes Causes irreversible eye damage.

Skin May cause skin irritation.

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	Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes Call poison control center or doctor for treatment advice.
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 Do not induce vomiting unless told to do so by a poison control center or doctor Never give anything by mouth to an unconscious person
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

Extnguishing Media

Water Carbon dioxide (CO2) Dry chemical

Fire/Explosion Hazard

May produce toxic materials during fire conditions

Hazardous Combustion Products

Hydrogen chloride, hydrogen fluoride, Oxides of nitrogen.

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	Keep out of reach of children. Keep from freezing. Maintain temperature above 40 F.
Storage	Keep from freezing. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Store in original container.

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.

Personal Protective Equipment

Eye/face Protection

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

Skin Protection

Wear protective gloves/clothing.

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. Wear suitable gloves and eye/face protection. 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 Mild
Physical State	Liquid	pH	no data available
Boiling Point/Range	217 °F	Melting Point/Range	Not available
Specific Gravity	1.18 g/ml	Solubility	Soluble
Evaporation Rate	Not available	Vapor pressure	Not available
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 Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride
Hydrogen fluoride

Possibility of Hazardous Polymerization Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information Sodium acifluorfen:
Oral LD50 (rat) = 1370 mg/kg (female) 2025 mg/kg (male)
Dermal LD50 (rabbit) = > 2,000 mg/kg
Inhalation LC50 (rat) = 6.9 mg/L
Skin irritation (rabbit) = Moderately irritating
Eye irritation (rabbit) - Severely irritating

Chronic Toxicity

Carcinogenicity Butyl cellosolve, an ingredient in this product, has been designated as a possible human carcinogen by the US EPA. Chronic toxicity. Chronic exposure to butyl cellosolve may cause liver damage and hemolytic disorders.

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 Empty containers should be taken for local recycling, recovery or waste disposal.

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/ELI ENCS NCS	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
Y

Chemical Name	CAS-No	Weight %	Acifluorfen
62476-59-9	20.1		

SARA 311/312 Hazardous Categorization

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

Clean Water Act

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

This product contains the following HAPs:

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

CERCLA

12U-104CAN
Blazer Herbicide

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)		List 2 - Potentially Toxic	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	Acifluorfen
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

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

Non-controlled

Chemical Name	NPRI
Butyl cellosolve	X

16. OTHER INFORMATION

Revision Date

23-Jan-2012

Revision Summary

Update section 2

UPI, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPI, Inc. UPI, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

End of MSDS