



MATERIAL SAFETY DATA SHEET

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 12-Dec-2007

Revision date 02-Apr-2014

Revision Number: 2

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	610-878-6100	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.
irritant

May cause drowsiness and dizziness

Very toxic in contact with skin

Very toxic if swallowed

corrosive

DANGER

appearance light, to, dark amber.	Physical state liquid.	Odor Unusual. Mild (bad translation).
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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. Very toxic in contact with skin.
Ingestion	HARMFUL IF SWALLOWED. Very toxic if swallowed.

3. Composition/information on Ingredients

Ingredients Name

Component	CAS-No	Weight %	OSHA PEL
Butyl cellosolve 111-76-2 (8.5)	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)	62476-59-9	20.1	N/A

4. First aid measures

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes Keep eye wide open while rinsing Remove from exposure, lie down Call a physician immediately Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Call a physician immediately Wash off immediately with plenty of water for at least 15 minutes Remove and wash contaminated clothing before re-use
Inhalation	Move to fresh air Get medical attention immediately
Ingestion	Call a physician or poison control center immediately Never give anything by mouth to an unconscious person Do NOT induce vomiting Call a physician immediately Do not induce vomiting without medical advice
Notes to physician	No information available

5. Fire-fighting measures

Flammable Explosive Properties

flash point

99

°C

/

210

°F

Autoignition temperature

Not Available

Flammability Limits in Air

Extngushing 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 3 flammability 1 Instability 1

6. Accidental release measures

Personal Precautions Use personal protective equipment. Keep people away from and upwind of spill/leak.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Clean-Up Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labelled containers. Prevent product from entering drains.

7. Handling and Storage

Handling Wear personal protective equipment. Do not breathe vapours or spray mist.

Storage Keep in properly labelled containers. Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

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

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- Eye/Face Protection** Tightly fitting safety goggles.
- Skin protection** Long sleeved clothing. Chemical resistant apron. Impervious butyl rubber gloves. Break through time. .?.
- Respiratory protection** Wear a positive-pressure supplied-air respirator.

General hygiene considerations

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

9. Physical and Chemical Properties

appearance	light to dark amber	Odor	Unusual Mild (bad translation)
Physical state	liquid	pH	No Data Available
Boiling Point/Range	103 °C / 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
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

The information below indicates whether any agency has listed any ingredient as a carcinogen.

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

Should not be released into the environment. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

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Blazer Herbicide**

Contaminated packaging Clean container with water. 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
TDG NOT REGULATED

15. Regulatory Information

International Inventories

Chemical name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	China	KECL	AICS
Butyl cellosolve	Present	X		X	Present	X	Present	X
Acifluorfen, sodium salt	Present		X	X		X		X

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

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
Reactive Hazard yes

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	Class 2 Ozone Depletors
Butyl cellosolve	111-76-2	8.5		Group I		

CERCLA

SARA Product RQ 0

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Butyl cellosolve			X	

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Blazer Herbicide

111-76-2 (8.5)				
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 Slight risk, Grade 1

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

Legend

NPRI - National Pollutant Release Inventory

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

16. Other Information

Revision date 02-Apr-2014

Revision Summary

Update section 14

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End of MSDS