

MATERIAL SAFETY DATA SHEET

BLAZER® HERBICIDE

Effective Date: 12/16/04

MSDS: Revision 1

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Blazer® Herbicide

COMPANY IDENTIFICATION:

United Phosphorus, Inc.
423 Riverview Plaza
Trenton, NJ 08611
1-800-247-1557 or www.upi-usa.com

FOR MEDICAL EMERGENCIES, contact the National Pesticide Information Center at 1-800-858-7378
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - Source
Sodium Salt of Acifluorfen*	62476-59-9	20-21%	1.0 mg/m ³ TWA - Rohm & Haas recommended
Inerts	Not Applicable	79-80%	
Including butyl cellosolve	111-76-2	(8.5)	25 ppm Skin TWA - ACGIH, OSHA (Final)

SARA Title III Section 313: *Listed

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Light to dark amber liquid with an unusual mild odor. May cause severe eye and moderate skin irritation.

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EFFECTS OF OVEREXPOSURE:

See Product Label and Directions for Use for additional precautionary statements.

DANGER: Corrosive. Causes irreversible eye damage. Harmful if swallowed, absorbed through skin, or inhaled. Do not get in eyes or on clothing. Avoid contact with skin and breathing vapor or spray mist.

Contains butyl cellosolve. Acute inhalation of butyl cellosolve causes lung, liver, kidney and blood changes in mice. Embryotoxicity and malformations occurred among offspring of rats exposed to 100 ppm by inhalation; however, these effects were accompanied by material toxicity. Embryotoxicity and teratogenicity were not seen in rats or rabbits at levels that did not indicate toxic effects in the adults.

Chronic exposure may cause liver damage.

Existing medical conditions aggravated by exposure to this material: No information found for this mixture.

SECTION 4 FIRST AID PROCEDURES

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

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Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: 210°F SFCC

FLAMMABILITY LIMITS in Air (% by Vol): 1

Lower: N/D

Upper: N/D

AUTOIGNITION TEMPERATURE: Not Determined

EXTINGUISHING MEDIA: Use water fog, CO(2), or dry chemical extinguishing media.

FIRE AND EXPLOSION HAZARDS: Toxic materials are generated in a fire (hydrogen chloride, hydrogen fluoride, nitrogen oxide).

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS: Spilled material should be recovered and applied according to label rates whenever possible. If application of spilled material is not possible, then spills should be contained, solidified, and placed in plastic containers for disposal. This material is not regulated under RCRA or CERCLA ("Superfund"). For large spills contact CHEMTREC at 1-800-424-9300. Prevent runoff.

Hazardous Substance Superfund: No

RQ (lbs): None

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Protect from freezing. Maintain above 40°F.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINE(S): Sodium Salt of Acifluorfen

PEL/TLV – 1.0 mg/m³, TWA

Butyl Cellosolve: 25ppm Skin TWA, ACGIH, OSHA

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

EYE PROTECTION: Chemical goggles when respirator does not provide eye protection.

RESPIRATORY PROTECTION: Supplied air respirators should be worn if large quantities of vapor or mist are generated or prolonged exposure possible.

PROTECTIVE CLOTHING: Gloves, apron, long-sleeved shirt, and long pants to prevent skin contact. Contains butoxyethanol which is skin absorbed. Avoid all skin contact.

VENTILATION: Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

OTHER: Eyewash and safety showers should be easily accessible.

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PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT @ 760mm Hg: 217°F
SOLUBILITY IN WATER: Dilutable
APPEARANCE: Light to dark amber liquid
pH: 8-9

VAPOR PRESSURE @ 20°C : 17
SPECIFIC GRAVITY: 1.18 g/ml (9.82 lb/gal)
ODOR: Unusual

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Avoid freezing temperatures

INCOMPATIBILITY: Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Including but not limited to oxides of carbon, nitrogen, HCl, HF

HAZARDOUS POLYMERIZATION: Does not occur

CORROSIVE TO METAL: No **OXIDIZER:** No

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicological Test Data:

For sodium acifluorfen:

Rat, Oral LD50 = 4790 mg/kg

Rat, Dermal LD50 = 3250 mg/kg

Rat, Inhalation LC50 (4 hr) = 33 mg/L

Rabbit, Skin Irritation – moderately irritating

Rabbit, Eye Irritation – severely irritating

Guinea pig, Dermal Sensitizer – not a sensitizer

OSHA, NTP, or IARC Carcinogen: Sodium acifluorfen, the active ingredient in this product, has been designated as a probable human carcinogen by the U.S. EPA.

12. ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA for sodium acifluorfen:

Mallard Duck: LD50 = 4187 mg/kg

Bobwhite Quail: LC50 > 10000 mg/kg

Mallard Duck: LC50 > 10000 mg/kg

Bobwhite Quail: No reproductive impairment up to 20 ppm

Mallard Duck: No reproductive impairment up to 100 ppm

Bluegill Sunfish: (static) 96 hr LC50 = 31 mg ai/L

Bluegill Sunfish: (dynamic) 96 hr LC50 > 32 mg ai/L

Rainbow Trout: 96 hr LC50 = 54 mg ai/L

Channel Catfish: 96 hr LC50 = 80 mg ai/L

Daphnia magna: 48 hr LC50 = 28 mg ai/L

Fiddler Crab: 96 hr LC50 > 1000 mg/L

Grass Shrimp: 96 hr LC50 = 189 mg ai/L

Freshwater Clam: 96 hr LC50 = 64 mg ai/L

Eastern Oyster: 48 hr EC50 = 31.3 mg ai/L

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

DISPOSAL METHOD (Container): Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.

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SECTION 14 TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION INFORMATION:

D.O.T. Proper Shipping Name (49CFR172.101-102): None

D.O.T. Hazard Classification CFR 172.101-102): None

D.O.T. Labels Required (49CFR172.101-102): None

Hazardous Substance (49CFR CERCLA List): No RQ (lbs): None

D.O.T. Placards Required (CFR172.504): None

Poison Constituent (49CFR172.203(K)): None

Bill of Lading Description: Compounds, Tree or Weed Killing, NOIBEN, (Herbicide)
(Freezable Product – protect from freezing – maintain 40°F)
Pallets (shrink wrapped)

SECTION 15 REGULATORY INFORMATION

U.S. REGULATIONS

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire: No **Pressure:** No **Reactivity:** No **TPQ (lbs):** 10,000 **Acute:** Yes **Chronic:** Yes

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

CATEGORY RATING

Health 2

Flammability 1

Instability 1

Other 0

NFPA 30 Storage Classification: Class IIIB

SECTION 16 OTHER INFORMATION

MSDS STATUS: Rev. 1

THIS INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT UNITED PHOSPHORUS, INC. TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS. JUDGMENTS AS TO THE SUITABILITY OF THE INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES IS NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, UNITED PHOSPHORUS, INC. EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.