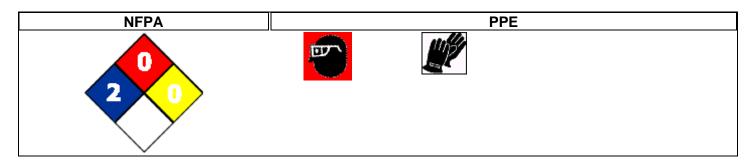
Material Safety Data Sheet



United Phosphorus, Inc.



Issued Date 12-Dec-2007 Revision Date 20-Nov-2009 Revision Number: 3

1. PRODUCT AND COMPANY IDENTIFICATION

UPI

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

Company Information

UPI SOM

Emergency Telephone Number Chemtrec: (800) 424-9300 (24hrs

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Medical: Rocky Mountain Poison Control Center

(866) 673-6671 (24hrs)

Contact Information
Customer Service

R&D Technical Service

Phone Number 1-800-438-6071 610-878-6100 Available Hrs 8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)

Product Name Storm Herbicide
EPA Reg # 70506-59
Recommended Use herbicide
Product Code 12U-140

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause severe eye irritation and moderate skin irritation.

Harmful if inhaled

DANGER!

Appearance Light, to, Dark amber. Physical State Liquid. Odor Unusual . Mild.

Potential Health Effects

Eyes Causes irreversible eye damage..

Skin May be absorbed through the skin in harmful amounts.

InhalationHarmful by inhalation.IngestionHarmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
53% solution of Sodium bentazon	50723-80-3	29.2	N/A
Acifluorfen, sodium salt	62476-59-9	13.4	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 Move person to fresh air.

If person is not breathing, call 911 or an ambulance, then give

artifical respiration.

Call a physician or Poison Control Centre immediately

Ingestion Call a physician or Poison Control Center immediately

Have person sip a glass of water if able to swallow

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 Not determined Autoignition Temperature Not available

Flammability Limits in Air Not available

Extriguishing Media Water, Foam Dry chemical.

Fire/Explosion Hazard May produce toxic materials during fire conditions

Hazardous Combustion Products Sulfur oxides, Oxides of nitrogen, Hydrogen chloride, hydrogen

fluoride.

NFPA Health 2 Flammability 0 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal PrecautionsAvoid contact with the skin and the eyes. Use personal protective equipment.

Environmental PrecautionsConsult 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 pertinenet 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. Do not eat, drink or smoke when using this product. Wear

personal protective equipment. Avoid breathing vapors or mists. Keep from freezing.

Storage Keep from freezing.. Store in original container. . Store in an area where cross-contamination

with pesticides, fertilizers, food or feed could not occur. .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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

Respiratory Protection

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.

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 before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Light to Dark amber Unusual Mild **Appearance** Odor **Physical State** approx.8.5 Liquid Ha **Boiling Point/Range** approx. 212°F Melting Point/Range Not available **Specific Gravity** 1.22 g/mL Solubility Soluble **Evaporation Rate** Not available Vapor Pressure Not available Not available **VOC Content** Not available **Vapor Density** No data available **Viscosity** Not available Molecular Weight **Bulk Density** 10.15 lb/gal **Percent Solids** Not available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Conditions to Avoid Freezing temperatures.

Not available

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products Oxides of sulfur. Oxides of nitrogen. Hydrogen fluoride. Hydrogen

chloride.

Possibility of Hazardous Polymerization Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Percent Volatiles

Product Information Storm Herbicide:

Acute oral LD50: 998 mg/kg (rat)
Acute dermal LD50: >2,000 mg/kg (rat)
Acute inhalation LC50: >2.03 mg/L (rat, 4 hour)
Eye irritation: Severe irritant (rabbit)

Skin irritation: Moderately irritating (rabbit)

Chronic Toxicity

Sodium acifluorfen, the active ingredient has been designated as a probable human

carcinogen by US EPA..

Carcinogenicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

12. ECOLOGICAL INFORMATION

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

Avian:

Bobwhite quail, LC50 >10,000 mg/kg

Mallard duck, LC50 >10,000 mg/kg. Sodium bentazon -

Aquatic:

Rainbow trout, 96 hr LC50 = >100 mg/L Bluegill sinfish, 96 hr LC50 = > 100 mg/L Daphnia magna, 48 hr EC50 = > 500 mg/L

Avain:

Bobwhite quail, LC50 >5,000 mg/kg Mallard duck, LC50 >5,000 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

53% solution of Sodium bentazon

EINECS/ELINCS Listed
CHINA Listed
KECL Listed

Acifluorfen, sodium salt

NDSL Listed
EINECS/ELINCS Listed
CHINA Listed

USA

12U-140 - Storm Herbicide

Federal Regulations

SARA 313

Υ

Chemical Name	CAS-No	Weight %
Acifluorfen, sodium salt	62476-59-9	13.4

SARA 311/312 Hazardous Categorization

Chronic Health Hazard

Acute Health Hazard

Fire Hazard

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	Class 2 Ozone Depletors
Acifluorfen, sodium salt	62476-59-9	13.4	Listed.			

CERCLA

Chemical Name	RQ
Acifluorfen, sodium salt	Listed.

RCRA

Pesticide Information

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65
Acifluorfen, sodium salt	62476-59-9		Listed.
			Listed: January 1, 1990
			Carcinogenic.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Acifluorfen, sodium salt				Listed.	

International Regulations

Mexico - Grade Not available

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

Not determined

16. OTHER INFORMATION

Revision Date

20-Nov-2009

Revision Summary Update section 15

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End of MSDS