



Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 22-Dec-2016

Revision date 22-Dec-2016

Revision Number: 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Description: Hurricane Herbicide

Other means of identification

Item#: 12U-HURRCA

Registration number(s) PCPA Canada Registration No. 32662

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Supplier Address

United Phosphorus Inc.
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 215-715-2174

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center
(866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 3
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 1

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

HARMFUL IF SWALLOWED

Harmful in contact with skin

Toxic if inhaled

CAUSES SKIN IRRITATION

Causes serious eye damage

**Appearance** Solid**Physical state** solid**Odor** Unusual Mild (bad translation)**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection
 Do not get in eyes, on skin, or on clothing
 Use only outdoors or in a well-ventilated area

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
53% solution of Sodium bentazon	50723-80-3	320 g/L	
Acifluorfen, sodium salt	62476-59-9	160 g/L	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

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. Call a 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 artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Protection of First-aiders	Use personal protective equipment.
<u>Most Important Symptoms and Effects, Both Acute and Delayed</u>	
Most Important Symptoms and Effects	No information available.
<u>Indication of Any Immediate Medical Attention and Special Treatment Needed</u>	
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO₂).
Use: Dry chemical. Water spray. alcohol-resistant foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Sulfur oxides. Oxides of nitrogen. Hydrogen chloride. Hydrogen fluoride.

Explosion data

Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes. Wear protective gloves/protective clothing and eye/face protection. Wash thoroughly after handling.

Environmental Precautions

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 and material for containment and cleaning up

Methods for Clean-Up Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children.
incompatible materials	Strong oxidizing agents.

8. Exposure Controls/Personal Protection

Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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.
<u>Personal protective equipment</u>	
Eye/Face Protection	Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles.
Skin protection	Wear protective gloves/clothing. Chemical resistant footwear plus socks.
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. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	solid	Odor	Unusual Mild (bad translation)
Appearance	Solid		
color	Light yellow		
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>	
pH	8.5		
Melting point/freezing point	No information available		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability limit in air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
vapor pressure	No information available		
Vapor Density	No information available		
Specific gravity	No information available		
Water solubility	No information available		
Solubility in Other Solvents	No information available		
Partition coefficient: n-octanol/water	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Viscosity, kinematic	No information available		
Dynamic viscosity	No information available		

Explosive properties No information available
Oxidizing properties No information available

OTHER INFORMATION

Softening point No information available
molecular weight No information available
VOC Content No information available
density No information available
Bulk density No information available

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under normal conditions. Hazardous polymerisation does not occur.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerisation does not occur.

Conditions to avoid

Freezing temperatures.

incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information

Information on Likely Routes of Exposure**Product information**

Information on similar formulation:
 Acute oral LD50 (rat) = 998 mg/kg
 Acute dermal LD50 (rat) = >2000 mg/kg
 Acute inhalation LC50 (rat) 4 hr = > 2.03 mg/L

Inhalation

May cause irritation of respiratory tract. Toxic if inhaled.

Eye contact

Causes irreversible eye damage.

Skin contact

May be harmful if absorbed through the skin.

Ingestion

HARMFUL IF SWALLOWED.

Information on Toxicological Effects**Symptoms**

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Sensitization**

No information available.

Mutagenic effects

No information available.

Carcinogenicity

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

Reproductive effects carcinogen by US EPA.
STOT - Single Exposure Not Available.
STOT - Repeated Exposure No information available.
Chronic toxicity No information available.
Aspiration hazard Avoid repeated exposure.
 No information available.

Numerical Measures of Toxicity - Product information

LD50 Oral 998 mg/kg (rat)
LD50 Dermal > 2000 mg/kg (rat)
LC50 Inhalation LC50/inhalation/4h/rat = > 2.03 mg/l (rat)

12. Ecological Information

ecotoxicity

Sodium acifluorfen:
 Aquatic
 Rainbow trout 96 hr LC50 - 54 mg ai/L
 Bluegill sunfish 96 hr LC50 = 31 mg ai/L
 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 = >1000 mg/L
 Freshwater clam 96 hr LC50 = 64 mg ai/L
 Eastern oyster 48 hr LC50 = 31.3 mg ai/L
 Avian
 Bobwhite quail >10000 mg/kg
 Mallard duck LC50 = >10000 mg/kg
 Sodium bentazon :
 Aquatic
 Rainbow trout 96 hr LC50 = >100 mg/kg
 Bluegill sunfish 96 hr LC50 = >100 mg/L
 Daphnia magna 48 hr LC50 = >500 mg/L
 Avian
 Bobwhite quail LC50 = >5000 mg/kg
 Mallard duck LC50 = >5000 mg/kg

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

Does not bioaccumulate.

Chemical name	Log Pow
53% solution of Sodium bentazon 50723-80-3	0.28

Other Adverse Effects

No information available

13. Disposal Considerations

Waste Treatment Methods

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 Refer to product label.

14. Transport Information

<u>DOT</u>	NOT REGULATED
<u>TDG</u>	NOT REGULATED
<u>IATA</u>	NOT REGULATED
<u>IMDG/IMO</u>	NOT REGULATED

15. Regulatory Information

This chemical/product is a pesticide product registered by the PMRA and is subject to specific label requirements under these regulations. The requirements may differ classification and hazard information required for safety data sheets and for labels of non-pesticide products. The following is information as required on the registered product label.

Keep out of Reach of Children. Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through the skin. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals.

International Inventories

USINV	Does not comply
DSL/NDL	Does not comply
EINECS/ ELINCS	Does not comply
ENCS	Does not comply
China	Complies
KECL	Does not comply
PICCS	Does not comply
AICS	Complies
TSCA	Does not comply

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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 and Title 40n of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous**Categorization**

Acute health hazard	yes
Chronic health hazard	yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	yes

CERCLA

SARA Product RQ 0

RCRA**Pesticide Information****State Regulations**

Component	CAS-No	CATEGORY	California Prop. 65	Non-additive, corrosive chemical type
Acifluorfen, sodium salt 62476-59-9 (160 g/L)	62476-59-9	Carcinogen	Carcinogen	

State Right-to-Know**International regulations****U.S. EPA Label information**

EPA Pesticide registration number Canada Registration No. 32662

16. Other Information

NFPA **HEALTH 2** **flammability 0** **Instability 0** **Physical hazard -**

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Revision Summary

Add to system

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End of MSDS