# **Safety Data Sheet**



Preparation Date 06-May-2015 Revision date 05-Sep-2019 Revision Number: 5

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

Identification of the product

Product Description Storm Herbicide

Other means of identification

Product code 12U-140 Registration number(s) 70506-59

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** 

UPL NA Inc.

630 Freedom Business Center

Suite 402

King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887Medical: Rocky Mountain Poison and

Drug Safety (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 Light To dark orange

Physical state Liquid

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-% |  |
|---------------------------------|------------|----------|--|
| 53% solution of Sodium bentazon | 50723-80-3 | 29.2     |  |
| Acifluorfen, sodium salt        | 62476-59-9 | 13.4     |  |

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**

General advice Show this safety data sheet to the doctor in attendance. If symptoms persist, call a

physician.

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.

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**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.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

no data available.

**Effects** 

Indication of Any Immediate Medical Attention and Special Treatment Needed

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 data 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 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

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.

Investigate engineering techniques to reduce exposures. Local mechanical exhaust **Engineering controls** 

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design

of exhaust systems.

Personal protective equipment

**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

Wear protective gloves/clothing. Chemical resistant footwear plus socks.

occur, wear:. Goggles.

Skin protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment Respiratory protection

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** Liquid

**Appearance** Light To dark orange Odor Unusual Mild (bad

translation)

No information available color

VALUES Remarks/ • Method Property

8.5

9.5 °C / 49 °F Melting point/freezing point

**Boiling Point/Range** No information available approx. 212

**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 1.22 g/mL

No information available Water solubility No information available Solubility in Other Solvents

Partition coefficient: n-octanol/waterNo information available

Autoignition temperature no data available

Decomposition temperature
Viscosity, kinematic
Dynamic viscosity
Explosive properties

Oxidizing properties

No information available
No information available
No information available
No information available

#### OTHER INFORMATION

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availableLiquid DensityNo information available

Bulk density 10.15 lb/gal

# 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** 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)

**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

No information available. Sensitization no data available. **Mutagenic effects** 

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

carcinogen by US EPA.

Not Available. Reproductive effects **STOT - Single Exposure** no data available. **STOT - Repeated Exposure** no data available.

Avoid repeated exposure. **Chronic toxicity Aspiration hazard** No information available.

#### Numerical Measures of Toxicity - Product information

998 mg/kg (rat) LD50 Oral > 2000 mg/kg (rat) **LD50 Dermal** > 2.03 mg/l (rat) (4-hr) LC50 Inhalation

# 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 data available.

# **Bioaccumulation/ Accumulation**

Does not bioaccumulate.

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

#### **Other Adverse Effects**

no data 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

DOT

**NOT REGULATED** 

**TDG** 

**NOT REGULATED** 

<u>IATA</u>

NOT REGULATED

IMDG

**NOT REGULATED** 

# 15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word DANGER

**Ventilation Control** PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO

PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA

WORKER PROTECTION STANDARD 40 CFR PART 170.

Corrosive. Causes moderate eye irritation. Keep out of Reach of Children. Harmful if swallowed or absorbed through the skin.

#### **International Inventories**

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

**ELINCS** 

ELINCS
ENCS
Not Present
China
Not Present
KECL
Not Present
PICCS
Not Present
AICS
Not Present
Not Present
Not Present
Not Present
Not Present

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

DSL/NDSL - 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 Title 40 of the Code of Federal Regulations, Part 372:

#### **CERCLA**

Not applicable

CERCLA

SARA Product RQ 0

**RCRA** 

**Pesticide Information** 

#### **State Regulations**

California Proposition 65

This product contains the following Proposition 65 chemicals:

| The product of the following tropoduct of the first series |        |                     |  |  |
|--|--------|---------------------|--|--|
| Component  |        | California Prop. 65 |  |  |
| Acifluorfen, sodium salt                                   |        | Carcinogen***       |  |  |
| 62476-59-9 ( 13.4  | )      |                     |  |  |
| Chemical name  | CAS    | No CATEGORY         |  |  |
| Acifluorfen, sodium salt                                   | 62476- | 59-9 Carcinogen     |  |  |

**Prop 65 Pictogram** 



Prop 65 Warning Statement California Proposition 65

WARNING\*\*\*

This product can expose you to chemicals which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov\*\*\*

#### State Right-to-Know

| Chemical name              | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------------|---------------|------------|--------------|----------|--------------|
| Acifluorfen, sodium salt - |               | X          |              |          |              |
| 62476-59-9                 |               |            |              |          |              |

## International regulations

**U.S. EPA Label information** 

EPA Pesticide registration number 70506-59

#### 16. Other Information

NFPA HEALTH 2 flammability 0 Instability 0 Physical hazard -

Preparation Date 06-May-2015 Revision date 05-Sep-2019

**Revision Summary** 

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**End of SDS**