

SAFETY DATA SHEET

1. IDENTIFICATION

PRODUCT NAME:	AVALANCHE ULTRA
EPA REGISTRATION NO.:	83222-37
PRODUCT TYPE:	Herbicide
CHEMICAL NAME OF ACTIVE INGREDIENT(S):	Acifluorfen, sodium salt
COMPANY NAME:	Winfield Solutions, LLC
	P.O. Box 64589
	St. Paul, MN 55164
	Phone: 1-800-424-9300
FOR MEDICAL AND CHEMICAL EMERGENCIES, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC:	
FOR EMERGENCY MEDICAL TREATMENT INFORMATION, CALL:	Phone: 1-877-424-7452
FOR NON-EMERGENCY BUSINESS INTERESTS, CALL:	Phone: 1-855-494-6343

2. HAZARDS IDENTIFICATIONS

Hazards information listed in this section are based on OSHA 2012 Hazard Communication Standard (29 CFR 1910.1200). See Section 15 for FIFRA information.

HAZARD CLASSIFICATION:

Eye irritation: Category 1
Skin irritation: Category 2
Carcinogenicity: Category 2

SIGNAL WORD: DANGER

PICTOGRAMS:



HAZARD STATEMENTS:

- Causes serious eye damage
- Cause skin irritation
- Suspected of causing cancer

PRECAUTIONARY STATEMENTS:

- Wear eye and face protection. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or a doctor.
- Wash hand thoroughly after handling. Wear protective gloves. If on skin: wash with plenty of water. If skin irritation occurs: get medical advice or attention. Take off contaminated clothing and wash it before reuse.
- Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and clothing, eye and face protection. If exposure or concerned : get medical advice or attention. Store locked up.

SAFETY DATA SHEET

STORAGE AND DISPOSAL: See Section 7 and 13.

OTHER HAZARDS: See Section 11 and 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

ACTIVE INGREDIENT	CAS NUMBER	%
Acifluorfen, sodium salt	62476-59-9	20.1

4. FIRST AID MEASURES

FIRST AID

IF IN EYES:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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 treatment advice.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For medical emergency information concerning this product, call: 1-877-424-7452.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. **ANTIDOTE** – No specific antidote is available. Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not available

AUTOIGNITION TEMPERATURE: Not available

FLAMMABLE LIMITS: Not available

FIRE AND EXPLOSION HAZARD: Toxic materials (hydrogen chloride, hydrogen fluoride, nitrogen oxide) may be generated in a fire.

EXTINGUISHING MEDIA: Water spray, carbon dioxide (CO₂), dry chemical

HAZARDOUS COMBUSTION PRODUCTS: Elevated temperatures can cause decomposition to potentially toxic gases.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

PRECAUTIONS TO BE TAKEN IN STORAGE: Do not store below 32°F.

SAFETY DATA SHEET

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES: Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear goggles or face shield

Skin Protection: Wear long sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves.

Ingestion: Do not eat, drink, or use tobacco when using this product. Avoid contact with eyes, skin, and clothing. Wash thoroughly immediately after handling this product.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guideline.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE LIMITS:

Chemical Name	CAS NO.	ACGIH/TLV	OSHA/PEL
Acifluorfen, sodium salt	62476-59-9	NE	NE

NE : Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light yellow liquid

ODOR: Mildly antiseptic

FLASH POINT: Not available

pH: 9.3

MELTING POINT: > 100°C

DENSITY: 1.157 g/cm³

VISCOSITY: 10.84 CST@25°C

SOLUBILITY IN WATER: Not available

MELTING POINT: Not available

SOLUBILITY: Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions

CONDITIONS TO AVOID: Freezing temperatures

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen - Hydrogen chloride – Hydrogen fluoride.

HAZARDOUS POLYMERIZATION: Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD ₅₀ (Rat):	2,025 mg/kg (male); 1,370 mg/kg (female)
Acute Dermal LD ₅₀ (Rabbit):	> 2,000 mg/kg (male/female)
Acute Inhalation LC ₅₀ (Rat):	> 6.9 mg/L
Eye Irritation (Rabbit):	Severely irritating
Dermal Irritation (Rabbit):	Moderately irritating

SAFETY DATA SHEET

Dermal Sensitization (Guinea Pig): Not a skin sensitizer

POTENTIAL HEALTH EFFECTS:

Eye	Risk of serious damage to eyes. Causes irreversible eye damage.
Skin	Moderate dermal irritant
Ingestion	Harmful if swallowed.
Inhalation	Avoid inhalation.

CARCINOGENICITY : Acifluorfen is classified by EPA as a Group B2 chemical carcinogen (probable human carcinogen). Cancer risk from sodium acifluorfen was quantified using the Agency's default approach described in the 1986 Cancer Risk Assessment Guidelines. Based on the results of the mode of action studies and reviews of the carcinogen bioassays conducted, in 2003 the Agency re-classified sodium acifluorfen as "likely to be carcinogenic to humans at high enough doses to cause the biochemical and histopathological changes in livers of rodents but unlikely to be carcinogenic at doses below those causing these changes. (2004 EPA RED)

CARCINOGENICITY: (Acifluorfen)

ACGIH: Not listed

IARC: Not listed

NTP: Not listed

OSHA: Not listed

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark, except as specified on this label for application to rice. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from target area.

GROUND WATER ADVISORY: Sodium acifluorfen is known to leach through soil to groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable (sandy or sandy/loamy soils) and water tables are shallow could result in contamination of groundwater. Use of irrigated water in such areas will increase the likelihood of groundwater contamination.

ECOTOXICITY: (Sodium Acifluorfen)**Aquatic:**

Rainbow trout – 96 hrs LC₅₀ = 54 mg a.i/L

Bluegill sunfish – 96 hrs LC₅₀ = 31 mg a.i/L (static)

Daphnia magna – 48 hrs EC₅₀ = 28 mg a.i/L

Channel catfish – 96 hrs LC₅₀ = 80 mg/L

Grass shrimp – 96 hrs LC₅₀ = 189 mg/L

Fiddler crab – 96 hrs LC₅₀ = >1,000 mg/L

Fresh water clam – 96 hrs LC₅₀ = 64 mg a.i/L

Eastern Oyster – 48 hrs LC₅₀ = 31.3 mg a.i/L

Avian:

Bobwhite quail – LC₅₀ >10,000 mg/kg

Mallard duck – LC₅₀ >10,000 mg/kg

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse according to label instructions. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions.

SAFETY DATA SHEET

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated

INTERNATIONAL TRANSPORTATION:

IMO (vessel): Not regulated

IATA (air): Not regulated

15. REGULATORY INFORMATION

FIFRA 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 for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

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

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Chronic health hazard

Section 313: Acifluorfen, sodium salt (CAS No. 62476-59-9)

CA PROPOSITION 65: This product contains a chemical (Acifluorfen, sodium salt) known to the State of California to cause cancer.

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: Not applicable

TSCA STATUS: All ingredients are listed on the TSCA inventory or are not required to be listed on the TSCA inventory.

16. OTHER INFORMATION

NFPA HAZARD RATINGS

	NFPA		NFPA	
HEALTH:	3	0	MINIMAL	
FLAMMABILITY:	1	1	SLIGHT	
REACTIVITY:	0	2	MODERATE	
		3	HIGH	
		4	SEVERE	

MSDS DATE: 9-25-17 Replaced version dated: 2-24-2017. Changes made to:

Winfield Solutions, LLC believes the information and recommendations provided above to be accurate. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided above relates only to the specific product designated and may not be applicable where such product is used in combination with any other materials or in any process. Use of this product is regulated by the U.S. Environmental Protection Agency (EPA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Additionally, as the conditions and methods of use are beyond the control of Winfield Solutions, LLC, Winfield Solutions, LLC expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Avalanche is a registered trademark of Winfield Solutions, LLC