

# Avalanche Ultra

# SAFETY DATA SHEET

Preparation Date 5-May-2016

Replaces 15-January-2013

Revision Number:

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

### Product identifier

Product Description: Avalanche Ultra

### Other means of identification

Unity #: 1415685  
Synonyms: Not Available  
Registration number(s): 70506-60-1381

### 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

Winfield Solutions, LLC  
P.O. Box 64589  
St. Paul, MN 55164

**Non-Emergency Business Inquiries** 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)

#### Emergency telephone number

**Medical Emergency** 1-877-424-7452 (24 hrs)  
**Emergency telephone number** Chemtrec: (800) 424-9300 (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 - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	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 in contact with skin  
Toxic if inhaled  
CAUSES SKIN IRRITATION  
Causes serious eye damage

**appearance** Light To dark orange**Physical state** liquid**Odor** Unusual**Precautionary Statements - Prevention**

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

Wash face, hands and any exposed skin thoroughly after handling

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

**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
- May be harmful in contact with skin

### 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Butyl cellosolve	111-76-2	8.5	
Acifluorfen, sodium salt	62476-59-9	20.1	

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**

Wash off immediately with plenty of water for at least 15 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 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 Effects** No information available.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician** Treat symptomatically.

## **5. Fire-fighting measures**

### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>).  
Use: Dry chemical. Water spray. alcohol-resistant foam.

**Unsuitable extinguishing media** No information available.

### **Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous combustion products** Hydrogen chloride. Hydrogen fluoride. Oxides of nitrogen.

### **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 the skin and the eyes. Wear protective gloves/clothing and eye/face protection.

### **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 in a dry, cool and well-ventilated place. Keep out of the reach of children.

incompatible materials Strong oxidizing agents.

## 8. Exposure Controls/Personal Protection

### Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Butyl cellosolve	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*

**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

#### 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.

#### Skin protection

Wear protective gloves/clothing. Socks and footwear.

#### 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

<b>Physical state</b>	liquid	<b>Odor</b>	Unusual
<b>appearance</b>	Light To dark orange		
<b>color</b>	No information available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
<b>pH</b>	8.2	
<b>Melting point/freezing point</b>	9.2 °C / 49 °F	
<b>Boiling Point/Range</b>	103 °C / 217 °F	
<b>Flash Point</b>	210 F	
<b>Evaporation Rate</b>	No information available	
<b>flammability (solid, gas)</b>	No information available	
<b>Flammability limit in air</b>		
<b>Upper Flammability Limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>vapor pressure</b>	17 @ 20 C	
<b>Vapor Density</b>	No information available	
<b>Specific gravity</b>	1.18 g/ml	
<b>Water solubility</b>	No information available	
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>decomposition temperature</b>	No information available	
<b>Viscosity, kinematic</b>	No information available	
<b>Dynamic viscosity</b>	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** 9.82 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** Avalanche Ultra:  
 Acute oral LD50 : 2,020 mg/kg (female rats)  
 Acute dermal LD50: >2,000 mg/kg (rats)  
 Inhalation : 2.04 mg/L (rat, 4 hr)  
 Skin Irritation : Moderately irritating to the skin  
 (rabbit) Sensitization : Not a sensitizer (guinea pig)

**Inhalation** Toxic if inhaled.

**Eye contact** Causes irreversible eye damage.

**Skin contact** May be harmful if absorbed through the skin.

**Ingestion** HARMFUL IF SWALLOWED.

**Component Information**

Butyl cellosolve:  
 Butyl cellosolve is irritate to the skin and eyes but is not a dermal sensitizer.  
 Developmental toxicity was noted in rats exposed to 100 ppm by inhalation in the presence of maternal toxicity. However, no developmental toxicity was observed in rats and rabbits by oral ingestion. Chronic exposure may cause liver damage and hemolytic disorders.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Butyl cellosolve 111-76-2	= 470 mg/kg ( Rat )	= 220 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h
Acifluorfen, sodium salt 62476-59-9	-	-	> 6900 mg/m <sup>3</sup> ( Rat ) 4 h

**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** The information below indicates whether any agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Butyl cellosolve 111-76-2	A3	Group 3		-

**Reproductive effects** Not Available.  
**STOT - Single Exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Chronic toxicity** Avoid repeated exposure.  
**Target organ effects** liver, kidney, Respiratory System, EYES, skin, Central Nervous System (CNS), blood, hematopoietic system.  
**Aspiration hazard** No information available.

**Numerical Measures of Toxicity - Product information**

**LD50 Oral** 2020 mg/kg (rat)  
**LD50 Dermal** > 2000 mg/kg (rat)  
**LC50 Inhalation:** LC50/inhalation/4h/rat = 2.04 mg/l (4-hr)

**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 = &gt;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 &gt;10000 mg/kg

Mallard duck LC50 = &gt;10000 mg/kg

**Persistence/Degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Butyl cellosolve 111-76- 2	0.81

**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

**DOT** NOT REGULATED

**TDG** NOT REGULATED

**IATA** NOT REGULATED

**IMDG/IMO** 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 irreversible eye damage. Harmful if swallowed or absorbed through the skin. Harmful if inhaled.**

### International Inventories

<b>USINV</b>	Not determined
<b>DSL/NDL</b>	Not determined
<b>EINECS/ ELINCS</b>	Complies
<b>ENCS</b>	Does not comply
<b>China</b>	Complies
<b>KECL</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>AICS</b>	Complies
<b>TSCA</b>	Complies

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

Chemical name	SARA 313 - Threshold Values
Acifluorfen, sodium salt - 62476-59-9	1.0

**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**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Butyl cellosolve 111-76-2 ( 8.5 )			X	

**State Regulations**

Component	CAS-No	CATEGORY	California Prop. 65	Non-additive, corrosive chemical type
Acifluorfen, sodium salt 62476-59-9 ( 20.1 )	62476-59-9	Carcinogen	Carcinogen	

**State Right-to-Know**

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Butyl cellosolve	X	X	X	X	
Acifluorfen, sodium salt		X			

**International regulations****U.S. EPA Label information**

EPA Pesticide registration number 70506-60-1381

## 16. Other Information

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

Preparation Date 4-May-2016  
Replaces 1-January-2013

Revision Summary All Sections

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End of MSDS