# 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 (CO2).

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 pertinenet 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

Respiratory protection

Wear protective gloves/clothing. Socks and footwear.
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 liquid

appearance Light To dark orange Odor Unusual

**color** No information available

<u>Property</u> <u>VALUES</u> <u>Remarks/ • Method</u>

**pH** 8.2

Melting point/freezing point 9.2 °C / 49 °F Boiling Point/Range 9.2 °C / 217 °F

Flash Point 210 F

Evaporation Rate No information available flammability (solid, gas) No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
No information available
No information available

vapor pressure 17 @ 20 C

Vapor Density No information available

Specific gravity 1.18 g/ml

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

#### **Avalanche Ultra**

**Explosive properties**No information available
Oxidizing properties
No information available

**OTHER INFORMATION** 

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availabledensityNo 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 irritating 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-	= 470 mg/kg ( Rat )	= 220 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h
Acifluorfen, sodium salt 62476-59-9	-	-	> 6900 mg/m³ ( Rat ) 4 h

### Information on Toxicological Effects

**Symptoms** No information available.

#### **Avalanche Ultra**

### 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	A3	Group 3		-
111-76-2				

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.

No information available. **Aspiration hazard** 

### 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 = >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

# Persistence/Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

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

#### **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

USINV Not determined Not determined EINECS/ Complies

**ELINCS** 

ENCS
China
Complies
KECL
Does not comply
PICCS
Does not comply
Complies
Complies
Complies
Complies

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 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 hazardyesChronic health hazardyesFire hazardNoSudden release of pressure hazardNoReactive Hazardyes

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		Х			

# 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 Date4-May-2016Replaces1-January-2013

**Revision Summary** All Sections

**Disclaimer** 

Winfield Solutions, LLC believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of Winfield Solutions, LLC and 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.

**End of MSDS** 

DACE 0/