



# Safety Data Sheet

Issue Date: 25-Jan-2023

Revision Date: 29-Aug-2024

Version 2

## 1. IDENTIFICATION

### Product identifier

**Product Name** Outshine All In

### Other means of identification

**SDS #** ADAMA-350-CA

**Synonyms** None

**Registration Number(s)** 35082 (Pest Control Products Act)

**UN/ID No** NA1993

### Recommended use of the chemical and restrictions on use

**Recommended Use** Herbicide

**Uses Advised Against** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

ADAMA Agricultural Solutions Canada Ltd.  
300-191 Lombard Avenue  
Winnipeg, Manitoba R3B 0X1  
1-855-264-6262

#### Emergency telephone number

##### **Emergency Telephone**

For fire, spill and/or leak contact INFOTRAC:  
1-800-535-5053 (North America) 1-352-323-3500 (International)  
For medical emergencies and health/safety inquiries, contact ProPharma Group:  
1-877-250-9291

## 2. HAZARDS IDENTIFICATION

**Appearance** Amber liquid

**Physical state** Liquid

**Odor** Paint-like odor

### Classification

Acute toxicity - Oral	Category 4
Skin sensitization	Category 1
Carcinogenicity	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 4

### Label elements

None

**Signal word****Danger****Hazard statements**

Harmful if swallowed

May cause an allergic skin reaction

Suspected of causing cancer

May be fatal if swallowed and enters airways

Combustible liquid

**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

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

Rinse mouth

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

IN CASE OF FIRE: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

**Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

**Synonyms** Outshine All In.

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
MCPA, 2-ethylhexyl ester	29450-45-1	46-52	-	-
Naphtha (petroleum), heavy aromatic	64742-94-5	12-16	-	-
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate	81406-37-3	12-16	-	-
Propylene carbonate	108-32-7	4-6	-	-
C10 Amide	14433-76-2	4-6	-	-
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	90194-26-6	1-4	-	-
Petroleum Distillates, Hydrotreated light	64742-47-8	1-3	-	-
2-Ethylhexanol	104-76-7	1-3	-	-
Florasulam	145701-23-1	0.1-1	-	-

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Harmful if swallowed. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization by skin contact.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	Yes.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.
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### Environmental precautions

<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
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### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.
<b>Methods for cleaning up</b>	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.
<b>Reference to other sections</b>	See Section 7 for information on safe handling. See section 8 for more information.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on safe handling</b>	Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
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**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up. Store away from other materials.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

**Physical state** Liquid  
**Appearance** Amber liquid  
**Color** Amber  
**Odor** Paint-like odor  
**Odor Threshold** Not determined

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	3.3-4.3	
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	No data available	
<b>Flash point</b>	84 °C / 183.2 °F	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor Pressure</b>	Not determined	
<b>Vapor Density</b>	No data available	
<b>Relative Density</b>	1.003-1.103	
<b>Water Solubility</b>	Not determined	

Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Autoignition temperature	No data available
Hyphen	Not determined
Kinematic viscosity	11.12 mm <sup>2</sup> /s
Dynamic Viscosity	Not determined
Explosive properties	Not determined.
Oxidizing properties	10% Potassium permanganate.

**Other information**

Softening Point	Not determined
Molecular weight	Not determined
VOC content	No data available
Liquid Density	Not determined
Bulk density	Not determined

## 10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	Heat, flames and sparks.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Inhalation	Do not inhale.
Ingestion	Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms	Please see section 4 of this SDS for symptoms.
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**Acute toxicity**

ATEmix (oral)	1098 mg/kg
ATEmix (dermal)	>2000 mg/kg
ATEmix (inhalation-dust/mist)	>2.18

Unknown acute toxicity	No information available
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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
MCPA, 2-ethylhexyl ester	= 1300 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 5.05 mg/L ( Rat ) 4 h

29450-45-1			
Naphtha (petroleum), heavy aromatic 64742-94-5	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 590 mg/m <sup>3</sup> ( Rat ) 4 h
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate 81406-37-3	= 3162 mg/kg ( Rat )	-	-
Propylene carbonate 108-32-7	= 29000 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
C10 Amide 14433-76-2	-	> 5000 mg/kg ( Rat )	> 3550.7 mg/m <sup>3</sup> ( Rat ) 4 h
2-Ethylhexanol 104-76-7	= 3730 mg/kg ( Rat )	= 1980 mg/kg ( Rabbit )	> 227 ppm ( Rat ) 6 h
Petroleum Distillates, Hydrotreated light 64742-47-8	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h
Florasulam 145701-23-1	>= 5000 mg/kg ( Rat )	>= 2000 mg/kg ( Rabbit )	>= 5 mg/L ( Rat ) 4 h

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

<b>Respiratory or skin sensitization</b>	May cause an allergic skin reaction.
<b>Carcinogenicity</b>	Suspected of causing cancer.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.

## 12. ECOLOGICAL INFORMATION

**Marine Pollutant** This material ships as a marine pollutant when single container exceeds 119 gal/ 882 lbs.

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
MCPA, 2-ethylhexyl ester 29450-45-1	EC50: =0.46mg/L (72h, Pseudokirchneriella subcapitata) EC50: =0.43mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 3.2 - 4.6mg/L (96h, Lepomis macrochirus) LC50: =3.2mg/L (96h, Oncorhynchus mykiss) LC50: >0.55mg/L (96h, Lepomis macrochirus)	-	EC50: =0.29mg/L (48h, Daphnia magna)
Naphtha (petroleum), heavy aromatic 64742-94-5	-	LC50: =19mg/L (96h, Pimephales promelas) LC50: =2.34mg/L (96h, Oncorhynchus mykiss) LC50: =1740mg/L (96h, Lepomis macrochirus) LC50: =45mg/L (96h, Pimephales promelas) LC50: =41mg/L (96h, Pimephales promelas)	-	EC50: =0.95mg/L (48h, Daphnia magna)
Propylene carbonate 108-32-7	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: >1000mg/L (96h, Cyprinus carpio)	EC50 > 10000 mg/L 17 h	EC50: >500mg/L (48h, Daphnia magna)
2-Ethylhexanol 104-76-7	EC50: =11.5mg/L (72h, Desmodesmus subspicatus)	LC50: 32 - 37mg/L (96h, Oncorhynchus mykiss) LC50: >7.5mg/L (96h, Oncorhynchus mykiss) LC50: 27 - 29.5mg/L (96h, Pimephales promelas)	-	EC50: =39mg/L (48h, Daphnia magna)

		LC50: =29.7mg/L (96h, Pimephales promelas) LC50: 10.0 - 33.0mg/L (96h, Lepomis macrochirus)		
Petroleum Distillates, Hydrotreated light 64742-47-8	-	LC50: =45mg/L (96h, Pimephales promelas) LC50: =2.2mg/L (96h, Lepomis macrochirus) LC50: =2.4mg/L (96h, Oncorhynchus mykiss)	-	-

**Persistence/Degradability** No information available.

**Bioaccumulation** No information available.

Chemical name	Partition coefficient
MCPA, 2-ethylhexyl ester 29450-45-1	4.49
Naphtha (petroleum), heavy aromatic 64742-94-5	6.5
Propylene carbonate 108-32-7	0.48
2-Ethylhexanol 104-76-7	2.9

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

**DOT** NOT REGULATED if shipped in NON BULK packaging (single containers less than 119 gal/ 882 lbs) by ground transport  
BULK Packaging (single containers larger than 119 gal/ 882 lbs):  
NA1993  
**UN/ID No**  
**Proper Shipping Name** Combustible liquid, n.o.s. (Hydrotreated Naptha)  
**Transport hazard class(es)** Comb liq  
**Packing Group** III  
**Marine Pollutant** This material ships as a marine pollutant when single container exceeds 119 gal/ 882 lbs.

**TDG** Section 1.45.1 of the TDG Regulations provides an exemption from documentation and safety marks only for this product and only when transported by road or railway vehicle.



**IATA**

UN number or ID number UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (MCPA-2-ethylhexyl ester, Fluroxypyromethyl)  
 Transport hazard class(es) 9  
 Packing group III  
 ERG Code 9L  
 Special Provisions A97, A158, A197  
 Description Yes

**IMDG**

UN number or ID number UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (MCPA-2-ethylhexyl ester, Fluroxypyromethyl)  
 Transport hazard class(es) 9  
 Packing Group III  
 EmS-No F-A, S-F  
 Special Provisions 274, 335, 969  
 Marine Pollutant Yes

**RID**

UN/ID No UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (MCPA-2-ethylhexyl ester, Fluroxypyromethyl)  
 Transport hazard class(es) 9  
 Packing Group III  
 Special Provisions 274, 335, 375, 601  
 Description Yes

**ADR**

UN number or ID number UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (MCPA-2-ethylhexyl ester, Fluroxypyromethyl)  
 Transport hazard class(es) 9  
 Packing Group III  
 Classification Code M6  
 Special Provisions 274, 335, 601, 375  
 Description Yes

<b>15. REGULATORY INFORMATION</b>
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**REGULATORY INFORMATION****International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIC
MCPA, 2-ethylhexyl ester			X		X			
Naphtha	X	X	X		X	X	X	X

(petroleum), heavy aromatic								
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate	X		X			X		
Propylene carbonate	X	X	X	X	X	X	X	X
C10 Amide	X	X	X	X	X	X		X
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt		X	X	X	X		X	X
Petroleum Distillates, Hydrotreated light	X	X	X		X	X	X	X
2-Ethylhexanol	X	X	X	X	X	X	X	X
Florasulam	X							

**Legend:**

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 Chemical Substances/European 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

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION****NFPA**  
**HMIS**Health hazards -  
Health hazards -Flammability -  
Flammability -Instability -  
Physical hazards -Special hazards -  
Personal Protection Not  
determined**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**TWA TWA (time-weighted average)  
STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value  
\* Skin designation

Revision Date: 29-Aug-2024

Revision Note: Regulatory update.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**