



Safety Data Sheet

Issue Date: 18-Jun-2020

Revision Date: 13-Jan-2023

Version 2

1. IDENTIFICATION

Product identifier

Product Name Outshine

Other means of identification

SDS # ADAMA-305

Registration Number(s) 31646 (Pest Control Products Act)
UN/ID No NA1993

Recommended use of the chemical and restrictions on use

Recommended Use Herbicide.

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

Emergency Overview This chemical is a product registered by the Canadian Pest Control Products Act (CPCPA) and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. This product has been classified according to Canada's Hazardous Product Regulations (WHMIS 2015). Please see CPCPA label for additional information.

Appearance Off-white liquid

Physical state Liquid

Odor Characteristic

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Signal Word

Danger

Hazard statements

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May be fatal if swallowed and enters airways
Combustible liquid

**Precautionary Statements - Prevention**

Wear protective gloves
Wear eye/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing must not be allowed out of the workplace
Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Do NOT induce vomiting
IN CASE OF FIRE: Use water spray, dry chemical, carbon dioxide
Alcohol resistant foam

Precautionary Statements - Storage

Store in a well-ventilated place
Keep cool
Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	1174522-09-8	30-40
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate	81406-37-3	10.5
1,2 Propanediol	57-55-6	<2
Florasulam	145701-23-1	0.25

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Description of first aid measures

General Advice	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.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	IF ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air.
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Self-Protection of the First Aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms	Causes skin and eye irritation. May cause an allergic skin reaction. Harmful if swallowed. Aspiration may occur during swallowing or vomiting and cause lung damage.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	This product contains a petroleum distillate. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia. Treat symptomatically for ingestion and/or skin and eye contact.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustible material.

Hazardous combustion products Smoke, fumes or vapors, and oxides of carbon.

Protective equipment and precautions for firefighters

In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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| Personal Precautions | Use personal protective equipment as required. |
| For Emergency Responders | Use personal protection recommended in Section 8. |

Environmental precautions

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| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information. |
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Methods and material for containment and cleaning up

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| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for Clean-Up | Take up mechanically, placing in appropriate containers for disposal. For waste disposal, see section 13 of the SDS. |

7. HANDLING AND STORAGE

Precautions for safe handling

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| Advice on Safe Handling | Use personal protective equipment as required. Use only with adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Contaminated work clothing must not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. |
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Conditions for safe storage, including any incompatibilities

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| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Store above 0°C. |
| Incompatible Materials | None known based on information supplied. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| <u>Exposure Guidelines</u> | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies |
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Appropriate engineering controls

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| Engineering Controls | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
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Individual protection measures, such as personal protective equipment

- | | |
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| Eye/Face Protection | Tight sealing safety goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations. |
| Skin and Body Protection | Suitable protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection. |
| Respiratory Protection | Ensure adequate ventilation, especially in confined areas. Refer to 29 CFR 1910.134 for |

respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Take off all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Characteristic
Appearance	Off-white liquid	Odor Threshold	No data available
Color	Off-white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5.24	
Melting point / freezing point	Not applicable	
Boiling point / boiling range	Not applicable	
Flash point	60.6°C / 141.1°F	
Evaporation Rate	Not applicable	
Flammability (Solid, Gas)	Not applicable for liquids	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor Pressure	Not applicable	
Vapor Density	No data available	
Relative Density	0.995 g/mL	
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	See section 12 for more information	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	192 mPa(s)	
Dynamic Viscosity	Not determined	
Explosive Properties	Not an explosive	
Oxidizing Properties	Not oxidizing	

10. STABILITY AND REACTIVITY

Reactivity
Not available.

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
Smoke, fumes or vapors, and oxides of carbon.

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.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate 81406-37-3	> 5000 mg/kg (Rat) = 3162 mg/kg (Rat)	= 2 g/kg (Rat)	-
1,2 Propanediol 57-55-6	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	-
Florasulam 145701-23-1	>= 5000 mg/kg (Rat)	>= 2000 mg/kg (Rabbit)	>= 5 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Sensitization	May cause an allergic skin reaction.
Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Aspiration hazard	May be fatal if swallowed and enters airways.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
1,2 Propanediol 57-55-6	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51600: 96 h Oncorhynchus mykiss mg/L LC50 static	1000: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods**Disposal of Wastes**

Do not contaminate water, food, or feed by storage or disposal. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Contaminated Packaging

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

14. TRANSPORT INFORMATION

Note

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

DOT

In containers of 119 gallons capacity or less this product is not regulated by DOT.

In containers larger than 119 gallons capacity:

UN/ID No

NA1993

Proper Shipping Name

Combustible liquid, n.o.s. (Petroleum distillates)

Hazard class

Comb. Liq.

Packing Group

III

IATA**UN number**

UN3082

Proper Shipping Name

Environmentally hazardous substance, liquid, n.o.s. (Fluroxypyr-methy, Florasulam)

Transport hazard class(es)

9

Packing Group

III

Marine Pollutant

Yes

IMDG**UN number**

UN3082

Proper Shipping Name

Environmentally hazardous substance, liquid, n.o.s. (Fluroxypyr-methy, Florasulam)

Transport hazard class(es)

9

Packing Group

III

Marine Pollutant

Yes

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.

UN3082

UN/ID No**Proper Shipping Name**

Environmentally hazardous substance, liquid, n.o.s. (Fluroxypyr-methy, Florasulam)

Hazard class

9

Packing Group

III

Marine Pollutant

Yes

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate	X			X			X		
1,2 Propanediol	X	ACTIVE	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***US Federal Regulations****CERCLA**

Not applicable

SARA 313

Not applicable

CWA (Clean Water Act)

Not applicable

US State Regulations**California Proposition 65**

Not applicable

U.S. State Right-to-Know Regulations

Not applicable

Pesticide Registration Number 31646 (Pest Control Products Act)**Pesticide Statement**

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:

Pesticide Label

WARNING EYE AND SKIN IRRITANT
 POTENTIAL SKIN SENSITIZER
 HARMFUL IF SWALLOWED

Difference between SDS and pesticide label

	LABEL	OSHA
Signal Word	Warning	Danger
Acute toxicity - Oral	Harmful if swallowed	Harmful if swallowed
Skin corrosion/irritation	Skin irritant	Causes skin irritation
Serious eye damage/eye irritation	Eye irritant	Causes serious eye irritation
Skin sensitization	Potential skin sensitizer	May cause an allergic skin reaction
Aspiration toxicity	N/A	May be fatal if swallowed and enters airways

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical hazards

Not determined

Personal Protection

Not determined

Issue Date:

18-Jun-2020

Revision Date:

13-Jan-2023

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