

Safety Data Sheet

Issue Date: 25-Jan-2023 Revision Date: 25-Jan-2023 Ver		Version 1
1. IDENTIFICATION		
Product identifier		
Product Name	FORCEFIGHTER ALL IN	
Other means of identification		
SDS #	ADAMA-349-CA	
303 #	ADAMA-343-CA	
Synonyms	None	
Registration Number(s)	35007 (Pest Control Products Act)	
UN/ID No	NA1993	
Recommended use of the chemica	l and restrictions on use	
Recommended Use Herbicide		
Uses Advised Against	No information available	
Details of the supplier of the safety	v data sheet	
<u>Manufacturer Address</u> ADAMA Agricultural Solutions Canada Ltd. 300-191 Lombard Avenue Winnipeg, Manitoba R3B 0X1 1-855-264-6262		
Emergency telephone numberEmergency TelephoneFor 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 IDENTIFICATIO	DN
Appearance Amber liquid	Physical state Liquid	Odor Petroleum distillates
A such that is the Original		
Acute toxicity - Oral Category 4		
Skin sensitization Category 1 Carcinogenicity Category 2		Category 1 Category 2
Reproductive toxicity		
		Category 2
Specific target organ toxicity (single exposure) Category 3		
Aspiration toxicity Flammable liquids	Aspiration toxicity Category 1	
		Category 4

Label elements

<u>Signal word</u> Danger

Hazard statements

Harmful if swallowed May cause an allergic skin reaction Suspected of causing cancer Suspected of damaging fertility or the unborn child May cause drowsiness or dizziness 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 Use only outdoors or in a well-ventilated area 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 INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth 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. Keep container tightly closed

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

<u>Substance</u> Synonyms

ForceFighter 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	25-29	-	-
Bromoxynil octanoate (octanoic acid,2,6-dibromo-4- cyanophenyl ester)	1689-99-2	25-29	-	-
Naphtha (petroleum), heavy aromatic	64742-94-5	23-26	-	-
1-Methylheptyl [(4-amino-3,5-dichloro-6- fluoropyridin-2-yl)oxy]acetate	81406-37-3	9-12	-	-
Benzenesulfonic acid, C10-13-alkyl dervis., calcium salt	90194-26-6	3-5	-	-
2-Ethylhexanol	104-76-7	2-3	-	-
Petroleum Distillates, Hydrotreated light	64742-47-8	<2	-	-

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	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.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.	
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.	
Ingestion	Rinse mouth. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	Harmful if swallowed. Causes mild skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.	
Indication of any immediate medica	al attention and special treatment needed	
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable extinguishing media Specific hazards arising from the chemical	Do not scatter spilled material with high pressure water streams. 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.

Explosion Data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge Yes.

Special protective equipment for
fire-fightersFirefighters 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

Personal precautions	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.	
Environmental precautions		
Environmental precautions	Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so.	
Methods and material for containment and cleaning up		
Methods for containment	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.	
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
Reference to other sections	See Section 7 for information on safe handling. See section 8 for more information.	

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling 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. Remove contaminated clothing and shoes.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep 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 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	Ensure adequate ventilation, especially in confined areas.	
Individual protection measures, su	ch as personal protective equipment	
Eye/face protection	Tight sealing safety goggles.	
Skin and body protection	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. 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	Amber liquid
Color	Amber
Odor	Petroleum distillates
Odor Threshold	Not determined
Property_	<u>Values</u>
рН	3.46-4.46
Melting point / freezing point	No data available
Initial boiling point and boiling	No data available
range	
Flash point	74 °C / 165.2 °F
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Not determined
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	
Vapor Pressure	Not determined
Vapor Density	No data available
Relative Density	1.059-1.159
Water Solubility	Not determined
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Autoignition temperature	No data available
Hyphen	Not determined
Kinematic viscosity	10.78
Dynamic Viscosity	Not determined
Explosive properties	Not an explosive.
Oxidizing properties	10% Potassium permanganate.
Other information	N () () ()
Softening Point	Not determined
Molecular weight	Not determined
VOC content	No data available
Liquid Density	Not determined

Remarks • Method

Bulk density

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Not determined
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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.

Acute toxicity

ATEmix (oral)	310 mg/kg
ATEmix (dermal)	>2000 mg/kg
ATEmix (inhalation-dust/mist)	>2.18

Unknown acute toxicity

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Bromoxynil octanoate (octanoic acid,2,6-dibromo-4-cyanophenyl ester) 1689-99-2	= 238 mg/kg (Rat)	= 1310 mg/kg (Rabbit)	-
MCPA, 2-ethylhexyl ester 29450-45-1	= 1300 mg/kg (Rat)	> 2000 mg/kg (Rat)	>5.05 mg/L (Rat)4 h
Naphtha (petroleum), heavy aromatic 64742-94-5	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 590 mg/m ³ (Rat)4 h
1-Methylheptyl [(4-amino-3,5- dichloro-6-fluoropyridin-2- yl)oxy]acetate 81406-37-3	= 3162 mg/kg (Rat)	-	-
2-Ethylhexanol 104-76-7	= 3730 mg/kg (Rat)	= 1980 mg/kg (Rabbit)	> 227 ppm (Rat)6 h

Petroleum Distillates,	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h
Hydrotreated light			, , ,
64742-47-8			

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

Skin corrosion/irritation Respiratory or skin sensitization Carcinogenicity	Causes mild skin irritation. May cause an allergic skin reaction. Suspected of causing cancer.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT - single exposure	May cause drowsiness or dizziness.
Aspiration hazard	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	LC50: 3.2 - 4.6mg/L (96h, Lepomis macrochirus)	-	EC50: =0.29mg/L (48h, Daphnia magna)
	subcapitata)	LC50: =3.2mg/L (96h,		
	EC50: =0.43mg/L (96h,	Oncorhynchus mykiss)		
	Pseudokirchneriella	LC50: >0.55mg/L (96h,		
	subcapitata)	Lepomis macrochirus)		
Naphtha (petroleum),	-	LC50: =19mg/L (96h,	-	EC50: =0.95mg/L (48h,
heavy aromatic		Pimephales promelas)		Daphnia magna)
64742-94-5		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)		
2-Ethylhexanol	EC50: =11.5mg/L (72h,	LC50: 32 - 37mg/L (96h,	-	EC50: =39mg/L (48h,
104-76-7	Desmodesmus	Oncorhynchus mykiss)		Daphnia magna)
	subspicatus)	LC50: >7.5mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: 27 - 29.5mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: =29.7mg/L (96h,		
		Pimephales promelas)		
		LC50: 10.0 - 33.0mg/L		
		(96h, Lepomis		
		macrochirus)		
Petroleum Distillates,	-	LC50: =45mg/L (96h,	-	-
Hydrotreated light		Pimephales promelas)		
64742-47-8		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	4.49
29450-45-1	
Naphtha (petroleum), heavy aromatic	6.5
64742-94-5	
2-Ethylhexanol	2.9
104-76-7	

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 UN/ID No Proper Shipping Name Transport hazard class(es) Packing Group Marine Pollutant	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 Combustible liquid, n.o.s. (Hydrotreated Naptha) Comb liq III This material ships as a marine pollutant when single container exceeds 119 gal/ 882 lbs.
<u>TDG</u>	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 Proper Shipping Name Transport hazard class(es) Packing group ERG Code Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Bromoxynil octanoate, MCPA-2- ethylhexyl ester) 9 III 9L A97, A158, A197 Yes
IMDG UN number or ID number Proper Shipping Name Transport hazard class(es) Packing Group EmS-No	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Bromoxynil octanoate, MCPA-2- ethylhexyl ester) 9 III F-A, S-F

Special Provisions Marine Pollutant	274, 335, 969 Yes
RID	
UN/ID No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bromoxynil octanoate, MCPA-2- ethylhexyl ester)
Transport hazard class(es)	9
Packing Group	
Classification Code	M6
Special Provisions	274, 335, 375, 601
ADR	
UN number or ID number	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bromoxynil octanoate, MCPA-2- ethylhexyl ester)
Transport hazard class(es)	9
Packing Group	
Classification Code	M6
Special Provisions	274, 335, 601, 375
Description	Yes

15. REGULATORY INFORMATION

REGULATORY INFORMATION

International Regulations

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

The Stockholm Convention on	Not applicable
Persistent Organic Pollutants	

The Rotterdam Convention Not applicable

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
MCPA, 2-ethylhexyl ester			X		X			
Bromoxynil octanoate (octanoic acid,2,6-dibromo-4- cyanophenyl ester)	Х	X	X		X			
Naphtha (petroleum), heavy aromatic	Х	X	X		X	X	X	Х
1-Methylheptyl [(4- amino-3,5-dichloro- 6-fluoropyridin-2- yl)oxy]acetate	Х		X			X		
Benzenesulfonic acid, C10-13-alkyl dervis., calcium salt		X	X	Х	X		X	Х
2-Ethylhexanol	Х	Х	Х	Х	X	X	X	Х
Petroleum Distillates,	Х	X	Х		Х	Х	X	Х

Hydrotreated light				

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
				aelerminea

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA STEL Ceiling	TWA (time-weighted average) STEL (Short Term Exposure Limit) Maximum limit value
* Pavisian Data:	Skin designation 25-Jan-2023
Revision Date:	20-Jan-2025

Revision Note: New format.

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