



# Safety Data Sheet

Issue Date: 24-Jan-2023

Revision Date: 25-Jan-2023

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Esteem All In

### Other means of identification

**SDS #** ADAMA-348-CA  
**Registration Number(s)** 35128 (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

**Emergency Overview** This chemical is a product registered by the Canadian Pest Control Products Act 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. Please see Section 15 for additional information. This product has been classified according to Canada's Hazardous Product Regulations (WHMIS 2015).

**Appearance** Amber liquid

**Physical state** Liquid

**Odor** Petroleum distillates

### Classification

Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

### Label elements

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

Suspected of causing cancer  
May damage fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure  
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  
Use only outdoors or in a well-ventilated area  
Do not breathe 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  
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 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  
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

**Substance****Synonyms**

Esteem 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	32-37	-	-
Naphtha (petroleum), heavy aromatic	64742-94-5	26-30	-	-
N-methyl-2-pyrrolidone	872-50-4	8-12	-	-
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate	81406-37-3	6-10	-	-
2-Pyridinecarboxylic acid, 3,6-dichloro-	1702-17-6	3-5	-	-
Petroleum Distillates, Hydrotreated light	64742-47-8	1-3	-	-
2-Ethylhexanol	104-76-7	1-3	-	-

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

Provide this SDS to medical personnel for treatment.

**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. Get medical attention immediately if symptoms occur.

**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 effects, both acute and delayed****Symptoms**

May be fatal if swallowed and enters airways. Causes mild skin irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure.

**Indication of any immediate medical 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.

**Unsuitable extinguishing media**

Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical**

Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

**Explosion Data****Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** Yes.**Special protective equipment for fire-fighters**

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****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. Ensure adequate ventilation.

**Environmental precautions****Environmental precautions**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**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 information on personal protection equipment.

**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. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. In case of insufficient ventilation, wear suitable respiratory equipment.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep containers tightly closed in a dry, cool and 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. Store locked up. Keep out of the reach of children. Store away from other materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical name	Canada - Alberta - Occupational Exposure Limits - Ceilings	Canada - British Columbia - Occupational Exposure Limits - Ceilings	Canada - Ontario - Occupational Exposure Limits - Ceilings	Quebec
N-methyl-2-pyrrolidone 872-50-4			TWA: 400 mg/m <sup>3</sup>	

### Appropriate engineering controls

**Engineering controls**                      Ensure adequate ventilation, especially in confined areas.

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

**Eye/face protection**                      Tight sealing safety goggles.

**Hand protection**                              Wear suitable gloves.

**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

<b>Physical state</b>	Liquid
<b>Appearance</b>	Amber liquid
<b>Color</b>	Not determined
<b>Odor</b>	Petroleum distillates
<b>Odor Threshold</b>	Not determined

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>pH</b>	2.22-3.22	
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	No data available	
<b>Flash point</b>	73.3°C / 163.94°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>	0.98-1.08	
<b>Water Solubility</b>	Not determined	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Autoignition temperature</b>	No data available	

Hyphen	Not determined
Kinematic viscosity	7.88 mm <sup>2</sup> /s
Dynamic Viscosity	Not determined
Explosive properties	Not determined.
Oxidizing properties	Not determined.

**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	Do not ingest.

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

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

**Acute toxicity**

ATEmix (oral)	>2000 mg/kg
ATEmix (dermal)	>2000 mg/kg
ATEmix (inhalation-dust/mist)	>2.14

**Unknown acute toxicity** No information available

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
N-methyl-2-pyrrolidone 872-50-4	= 3914 mg/kg ( Rat )	= 8 g/kg ( Rabbit )	> 5.1 mg/L ( Rat ) 4 h
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate 81406-37-3	= 3162 mg/kg ( Rat )	-	-
2-Pyridinecarboxylic acid, 3,6-dichloro- 1702-17-6	= 2675 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
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

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

<b>Skin corrosion/irritation</b>	Causes mild skin irritation.
<b>Respiratory or skin sensitization</b>	May cause an allergic skin reaction.
<b>Carcinogenicity</b>	Suspected of causing cancer.
<b>Reproductive toxicity</b>	May damage fertility or the unborn child.
<b>STOT - single exposure</b>	May cause drowsiness or dizziness.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.

## 12. ECOLOGICAL INFORMATION

<b>Marine Pollutant</b>	Yes.
<b>Ecotoxicity</b>	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)
N-methyl-2-pyrrolidone 872-50-4	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: =832mg/L (96h, Lepomis macrochirus) LC50: =1072mg/L (96h, Pimephales promelas) LC50: =1400mg/L (96h,	-	EC50: =4897mg/L (48h, Daphnia magna)

		Poecilia reticulata)		
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) LC50: =29.7mg/L (96h, Pimephales promelas) LC50: 10.0 - 33.0mg/L (96h, Lepomis macrochirus)	-	EC50: =39mg/L (48h, Daphnia magna)
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
N-methyl-2-pyrrolidone 872-50-4	-0.46
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



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

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

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

<b><u>RID</u></b>	
<b>UN/ID No</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (MCPA-2-ethylhexyl ester, Fluroxypr-meptyl)
<b>Transport hazard class(es)</b>	9
<b>Packing Group</b>	III
<b>Classification Code</b>	M6
<b>Special Provisions</b>	274, 335, 375, 601
<b>Marine Pollutant</b>	Yes

<b><u>ADR</u></b>	
<b>UN number or ID number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (MCPA-2-ethylhexyl ester, Fluroxypr-meptyl)
<b>Transport hazard class(es)</b>	9
<b>Packing Group</b>	III
<b>Classification Code</b>	M6
<b>Special Provisions</b>	274, 335, 601, 375
<b>Marine Pollutant</b>	Yes

## 15. REGULATORY INFORMATION

### REGULATORY INFORMATION

<b><u>International Regulations</u></b>	
The Montreal Protocol on	Not applicable

**Substances that Deplete the Ozone Layer**

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable  
**The Rotterdam Convention** Not applicable

**International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AIC
MCPA, 2-ethylhexyl ester			X		X			
Naphtha (petroleum), heavy aromatic	X	X	X		X	X	X	X
N-methyl-2-pyrrolidone	X	X	X	X	X	X	X	X
1-Methylheptyl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate	X		X			X		
2-Pyridinecarboxylic acid, 3,6-dichloro-	X	X	X					
Petroleum Distillates, Hydrotreated light	X	X	X		X	X	X	X
2-Ethylhexanol	X	X	X	X	X	X	X	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

<b>16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION</b>
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**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: 25-Jan-2023

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**