



SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Forcefighter All In

Revision date 14-Apr-2026

Version 2.01

Supersedes Date: 12-Jan-2026

Product Code(s) HRB05079-1

Print Date 14-Apr-2026

ADM.03302.H.1.C 9513631

1. Identification

Product identifier

Product Name Forcefighter All In

Other means of identification

Document ADAMA-349-CA

Synonyms Bromoxynil 200 MCPA 200 Fluroxypyr 80 EC

Registration Number(s) 35007

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier 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. Hazard(s) identification

This chemical is a product registered under the Pest Control Products Act (PCPA) of Canada 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).

Classification

| | |
|--|------------|
| Acute toxicity - Oral | Category 4 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |

| | |
|-------------------|------------|
| Aspiration hazard | Category 1 |
| Flammable liquids | Category 4 |

Label elements**Signal word: 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 - General**

Keep out of reach of children

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
 Rinse mouth
 IF SWALLOWED: Immediately call a POISON CENTER or doctor
 Do NOT induce vomiting
 IF ON SKIN: Wash with plenty of water and soap
 If skin irritation or rash occurs: Get medical advice/attention
 Specific treatment (see supplemental first aid instructions on this label)
 Take off contaminated clothing and wash it before reuse
 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 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
 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. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause skin irritation.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Synonyms

Bromoxynil 200 MCPA 200 Fluroxypyr 80 EC.

| Chemical name | CAS No. | Weight-% | INTERNATIONAL GHS CLASSIFICATION |
|--|--------------|----------|---|
| MCPA-2-ethylhexyl ester | 29450-45-1 | 25-29 | Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| Bromoxynil octanoate | 1689-99-2 | 25-29 | Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Sens. 1 (H317) Repr. 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| Hydrocarbons, C10, aromatics, >1% naphthalene | 64742-94-5 | 23-26 | Asp. Tox. 1 (H304)Carc. 2 (H351) Aquatic Chronic 2 (H411)STOT SE 3 (H336) |
| Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt | 1335202-81-7 | 3-5 | Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412) |
| 2-Ethylhexanol | 104-76-7 | 2-3 | Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | < 2 | Asp. Tox. 1 (H304) Flam. Liq. 4 (H227) Skin Irrit. 3 (H316) |

4. First-aid measures

Description of first aid measures

General advice

First aider: Pay attention to self-protection. IF exposed or concerned: Get medical advice/attention.

Inhalation

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

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.

Ingestion

Do NOT induce vomiting. Immediate medical attention is required. Call a poison control center or doctor for treatment advice.

Self-protection of the first aider

Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

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.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

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. Product is or contains a sensitizer. May cause sensitization by skin contact. Combustible liquid.

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 protective 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.

Other information Refer to protective measures listed in Sections 7 and 8.

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.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protective 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 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. Keep out of the reach of children. Store locked up. Store away from other materials.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits

| Chemical name | Alberta | British Columbia | Ontario | Quebec | ACGIH TLV |
|---|---------|------------------------------------|---------|--------|-----------|
| Distillates (petroleum), hydrotreated light 64742-47-8 | | TWA: 200 mg/m ³ Skin | | | |

Appropriate engineering controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

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

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

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

| <u>Property</u> | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|------------------------|-------------------------|----------------------|-----------------------|
| Appearance | | | |
| Physical state | : Liquid | | |
| Color | : amber | | |
| Odor | : Petroleum distillates | | |
| Odor threshold | : No data available | | |
| pH | : 3 - 5 | CIPAC MT 75 | solution (1%) |

| | | | | |
|---|---|----------------------------|--------------------|--|
| Melting point / freezing point °C | : | No data available | | |
| Boiling point / boiling range °C | : | No data available | | |
| Flash point °C | : | 74 | EPA-OPPTS 830-6315 | |
| Evaporation rate | : | No data available | | |
| Flammability (solid, gas) | : | Not applicable | | |
| Upper/lower flammability or explosive limits | : | No data available | | |
| Vapor pressure kPa | : | No data available | | |
| Vapor density | : | No data available | | |
| Relative density | : | 1.059 - 1.159 | OECD 109 | 20 °C |
| Solubility(ies) mg/l | : | No data available | | |
| Partition coefficient Log Pow | : | | | See Section 12 for additional Ecological Information |
| Autoignition temperature °C | : | No data available | | |
| Decomposition temperature °C | : | No data available | | |
| Kinematic viscosity mm ² /s 40 °C | : | 10.78 | EPA-OPPTS 830.7100 | |
| Explosive properties | : | Not an explosive | | |
| Oxidizing properties | : | 10% Potassium permanganate | EPA-OPPTS 830.6314 | Incompatible materials |
| Surface tension | : | No data available | | |
| Particle Size | : | Not applicable | | |
| | | | | |
| Other information | | | | |
| Bulk density g/ml | : | Not applicable | | |

10. Stability and reactivity

Reactivity

No information 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 None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

| | |
|---------------------|--|
| Inhalation | Not an expected route of exposure |
| Eye contact | Not an expected route of exposure May cause slight eye irritation |
| Skin contact | May cause sensitization by skin contact Substance may cause slight skin irritation |
| Ingestion | Harmful if swallowed |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known

Information on toxicological effects

Acute toxicity

| | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u> |
|--|-------------------------------|----------------|---------------|----------------------------------|
| Oral LD50 mg/kg | : 310 | Rat | OECD 425 | Maximum attainable concentration |
| Dermal LD50 mg/kg | : > 2000 | Rat | OECD 402 | |
| Inhalation LC50 LC50 (4 hr) | : > 2.18 | Rat | OECD 403 | |
| Skin corrosion/irritation | : Mild skin irritant | Rabbit | OECD 404 | |
| Serious eye damage/eye irritation | : May cause slight irritation | Rabbit | OECD 405 | |
| Sensitization | : Skin sensitizer | Mouse | OECD 429 | |

Chronic toxicity

Germ cell mutagenicity

Chemical name

MCPA-2-ethylhexyl ester : Not classified
Bromoxynil octanoate : Not classified

Carcinogenicity

Chemical name

MCPA-2-ethylhexyl ester : No data available
Bromoxynil octanoate : Not Carcinogenic
Hydrocarbons, C10, aromatics, >1% naphthalene : Suspected of causing cancer

Reproductive toxicity

Chemical name

MCPA-2-ethylhexyl ester : Not classified
Bromoxynil octanoate : Suspected of damaging fertility or the unborn child

STOT - Single Exposure

Chemical name

MCPA-2-ethylhexyl ester : No data available
Bromoxynil octanoate : No data available
Hydrocarbons, C10, aromatics, >1% naphthalene : H336 - May cause drowsiness or dizziness

STOT - Repeated Exposure

Chemical name

MCPA-2-ethylhexyl ester : No data available
Bromoxynil octanoate : No data available

Aspiration hazard

Chemical name

MCPA-2-ethylhexyl ester : No data available
Bromoxynil octanoate : No data available
Hydrocarbons, C10, aromatics, >1% naphthalene : H304 - May be fatal if swallowed and enters airways

12. Ecological information

Ecotoxicity

Aquatic toxicity

| Acute toxicity | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u> |
|-----------------------------|---------------------|----------------|---------------|----------------|
| Fish 96-hour LC50 mg/L | : No data available | | | |
| Crustacea 48-hour EC50 mg/L | : No data available | | | |
| Algae 72-hour EC50 mg/L | : No data available | | | |
| Other plants EC50 mg/l | : | | | |

| Chronic aquatic toxicity | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u> |
|---------------------------------|---------------------|----------------|---------------|----------------|
| Fish NOEC mg/l | : No data available | | | |
| Crustacea NOEC mg/l | : No data available | | | |
| Algae NOEC mg/l | : No data available | | | |
| Other plants NOEC mg/l | : No data available | | | |

Terrestrial Toxicity**Birds Oral LD50 mg/kg**

| Chemical name | | | | |
|-------------------------|-------|--|--|-------------------|
| MCPA-2-ethylhexyl ester | : | | | No data available |
| Bromoxynil octanoate | : 170 | | | |

Bees Oral LD50 µg/bee

| Chemical name | | | | |
|-------------------------|-----------|--|--|-------------------|
| MCPA-2-ethylhexyl ester | : | | | No data available |
| Bromoxynil octanoate | : > 119.8 | | | |

Abiotic Degradation**Water DT50 days**

| Chemical name | | | | |
|-------------------------|--------|--|--|-------------------|
| MCPA-2-ethylhexyl ester | : | | | No data available |
| Bromoxynil octanoate | : 0.05 | | | |

Soil DT50 days

| Chemical name | | | | |
|-------------------------|-------|--|--|-------------------|
| MCPA-2-ethylhexyl ester | : | | | No data available |
| Bromoxynil octanoate | : < 1 | | | |

Biodegradation

| Chemical name | | | | |
|-------------------------|-----------------------------|--|--|-------------------|
| MCPA-2-ethylhexyl ester | : | | | No data available |
| Bromoxynil octanoate | : Not readily biodegradable | | | |

Log Pow

| Chemical name | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|-------------------------|---------------|---------------|-------------------|
| MCPA-2-ethylhexyl ester | : | | No data available |
| Bromoxynil octanoate | : 5.9 | | |

Bioconcentration factor (BCF)

| Chemical name | | | | |
|-------------------------|-------|--|--|-------------------|
| MCPA-2-ethylhexyl ester | : | | | No data available |
| Bromoxynil octanoate | : 230 | | | |

Adsorption/Desorption

| Chemical name | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|-------------------------|---------------|---------------|-------------------|
| MCPA-2-ethylhexyl ester | : | | No data available |
| Bromoxynil octanoate | : 639 | | KOC |

13. Disposal considerations**Waste treatment methods**

| | |
|--|---|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging | Do not reuse empty containers. |

14. Transport information

TDG

| | |
|--------------------------------|---|
| UN/ID no | UN3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate, MCPA-2-ethylhexyl ester) |
| Hazard class | 9 |
| Packing group | III |
| Special Provisions | 16, 99 |
| Marine pollutant | Yes. |
| Description | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate, MCPA-2-ethylhexyl ester), 9, III |
| Note | Section 1.45.1 of the TDG Regulation provides an exemption from documentation and safety marks for this product when transported by road or railway vehicle in non-bulk containers. |

DOT

| | |
|--|---|
| UN/ID no | UN3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate, MCPA-2-ethylhexyl ester) |
| Hazard class | 9 |
| Packing group | III |
| Special Provisions | 8, 146, 173, 335, IB3, T4, TP1, TP29 |
| Marine pollutant | Yes. |
| Description | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate, MCPA-2-ethylhexyl ester), 9, III, Marine pollutant |
| Emergency Response Guide Number | 171 |

IATA

| | |
|-----------------------------------|---|
| UN number or ID number | UN3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate, MCPA-2-ethylhexyl ester) |
| Transport hazard class(es) | 9 |
| Packing group | III |
| ERG Code | 9L |
| Special Provisions | A97, A158, A197 |
| Description | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate, MCPA-2-ethylhexyl ester), 9, III |

IMDG

| | |
|-----------------------------------|---|
| UN number or ID number | UN3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate, MCPA-2-ethylhexyl ester) |
| Transport hazard class(es) | 9 |
| Packing group | III |
| EmS-No | F-A, S-F |
| Special Provisions | 274, 335, 969 |
| Marine pollutant | P |
| Description | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil octanoate, MCPA-2-ethylhexyl ester), 9, III, Marine pollutant |



15. Regulatory information

The laws, regulations and standards listed below have requirements on the management of this product:

International Regulations

International Inventories

| | |
|----------------------|---|
| TSCA | Contact supplier for inventory compliance status. |
| DSL/NDL | Contact supplier for inventory compliance status. |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS | Contact supplier for inventory compliance status. |
| IECSC | Contact supplier for inventory compliance status. |
| KECL | Contact supplier for inventory compliance status. |
| PICCS | Contact supplier for inventory compliance status. |
| AICS | Contact supplier for inventory compliance status. |

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - 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

Registration Number Pest Control Product Reg. No. 35007

Pest Control Product Statement This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. Read the label before using or handling the pest control product. These label requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: DANGER - POISON, SKIN IRRITANT, Potential skin sensitizer

Difference between SDS and product label

| | PCPA Product Label | GHS SDS |
|-----------------------|---------------------------|---|
| Signal word | Danger / POISON | DANGER |
| Acute toxicity - Oral | Fatal if swallowed | Harmful if swallowed |
| Skin irritation | May irritate skin | NA |
| Skin sensitization | Potential skin sensitizer | May cause an allergic skin reaction |
| Single exposure | NA | May cause drowsiness or dizziness |
| Carcinogenicity | NA | Suspected of causing cancer |
| Reproductive toxicity | NA | Suspected of damaging fertility or the unborn child |

16. Other information

| | | | | |
|-------------|---------------------------|-----------------------|---------------------------|---|
| NFPA | Health hazards 2 | Flammability 2 | Instability 0 | Physical and chemical properties - |
| HMIS | Health hazards 2 * | Flammability 2 | Physical hazards 0 | Personal protection X |

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 U.S. Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
 International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
 International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
 United Nations World Health Organization (WHO)

Revision date 14-Apr-2026

Revision Note 7. 11.

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