

**1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: IPCO Emit Herbicide  
 Pest Control Product Number: 34600  
 Product Use: Agrochemicals/Herbicide  
 Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.  
 945 Marion St.  
 Winnipeg, Manitoba  
 R2J 0K7  
[www.ipco.ca](http://www.ipco.ca)  
 Effective Date: 22/09/2022  
 This product is regulated under authority of the Pest Control Products Act

**2: HAZARD IDENTIFICATION**

Classified according to UN GHS Version 5

Physical Hazard: None  
 Skin Irritation: Category 2  
 Skin Sensitizer: Category 1B  
 Acute Toxicity (Oral): Category 4  
 Acute Toxicity (Inhalation): Category 4  
 Hazardous to aquatic environment, acute: Category 1

Pictograms:



Signal word: **WARNING**  
 Hazard statements: Causes skin irritation. May cause an allergic skin reaction. Harmful if swallowed. Harmful if inhaled. Very toxic to aquatic life.  
 Precautionary statement: Avoid contact with skin, eyes and clothing. Wear goggles or face shield during mixing/loading. Wear coveralls over a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. After use, wash hands and other exposed skin. Remove and wash contaminated clothing before reuse. Avoid breathing spray mist. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Harmful if swallowed. This product contains an active ingredient and petroleum distillates which are toxic to aquatic organisms.

**3: COMPOSITION AND INFORMATION ON INGREDIENTS**

COMPONENT	CAS NUMBER	% (W/W)
<b>MCPA 2-ethylhexyl ester</b>	29450-45-1	27.5-29.5%
Chemical Synonyms: MCPA 2EH; 2-ethylhexyl 2-(4-chloro-2-methylphenoxy)acetate; 2-ethylhexyl (4-chloro-2-methylphenoxy)acetate		
<b>Bromoxnil octanoate</b>	1689-99-2	26.0-28.0%

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Chemical Synonyms: 2,6-dibromo-4-cyanophenyl octanoate

**Solvent naphtha (petroleum), heavy aromatic, naphthalene depleted** 64742-94-5 23.5-25.0%

**Fluroxypyr 1-methylheptyl ester** 81406-37-3 9.9-11.4%

Chemical Synonyms: fluroxypyr MHE; fluroxypyr-meptyl; 1-methylheptyl [(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetate

Other ingredients are considered non-hazardous.

#### 4: FIRST AID MEASURES

Ingestion:	Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Skin Contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.
Eye Contact:	Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
Inhalation:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
General Advice:	Take container, label or product name and Pest Control Product Registration Number with you, when seeking medical attention.  DO NOT induce vomiting. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. No specific antidote. Employ supportive care. High concentrations of MCPA may cause severe irritation to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low-blood pressure and unconsciousness. Treat symptomatically.

#### 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water fog, alcohol foam, carbon dioxide, dry chemical.			
Special Fire Fighting Procedure:	Firefighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Minimize and contain water runoff.			
Flash Point:	100°C			
Conditions of Flammability:	Not classed as a combustible liquid but may burn under fire conditions.			
Hazardous Decomposition Materials (Under fire conditions):	Under fire conditions, may produce gases such as hydrogen bromide or other bromine compounds, hydrogen chloride, nitrogen oxides and carbon oxides.			
National Fire Protection Association (NFPA) Hazard Rating:	Health: 2	Flammability: 1	Reactivity: 0	
	Hazards Scale: 0 = Minimal 1 = Slight		2 = Moderate 3 = Serious 4 = Severe	

#### 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use safety equipment and procedures appropriate to the size of the spill. Keep unnecessary people away.
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Environmental precautions: Avoid runoff to natural waters and sewers.

Methods for containment and cleaning up: Surround and absorb spills with inert material such as perlite, sawdust, clay granules, vermiculite, sand or dirt. Contain all affected material in a closed, labeled container for proper disposal. Isolate from other waste materials. Clean contaminated area such as hard surfaces with detergent and water, collecting cleaning solution for proper disposal. Large spills may be reportable to the National Response Center and/or to local agencies.

**7: HANDLING AND STORAGE**

Handling: Avoid contact with skin, eyes and clothing. Wear goggles or face shield during mixing/loading. Wear coveralls over a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. After use, wash hands and other exposed skin. Remove and wash contaminated clothing before reuse.

Storage: Avoid breathing spray mist. Do not eat, drink or smoke when using this product. Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. May be stored at any temperature. Shake well before using.

**8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Exposure Guidelines:

Chemical name	TWA*	STEL**	Reference/Note
MCPA 2-ethylhexyl ester	N/E	N/E	None found
Bromoxynil octanoate	0.21 mg/m <sup>3</sup>	N/E	Supplier recommendation
Solvent naphtha (petroleum), heavy aromatic, naphthalene depleted	50 mg/m <sup>3</sup>	N/E	Supplier recommendation
Fluroxypyr 1-methylheptyl ester	10 mg/m <sup>3</sup>	N/E	Supplier recommendation

\*Time-weighted Average, 8-hour unless otherwise noted.

\*\*Short Term Exposure Limit

NE = Not Established

Refer to approved product label for additional exposure control guidance.

Engineering controls: Use only outdoors or in a well-ventilated area.

Personal protective equipment: Goggles or face shield, coveralls, long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal.

**9: PHYSICAL AND CHEMICAL PROPERTIES**

**NOTE:** Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification. If no value is determined for the formulation, the value listed is the most relevant value of the predominant ingredient(s).

Appearance: Clear amber liquid

Odor: Hydrocarbon-like

Odor threshold: No data available

pH: 4.2 (1% w/w dilution)

Melting point: No data available

Freezing point: ~-20°C

Boiling point: >185C (bromoxynil octanoate)

Flash point: 100°C

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Evaporation rate:	<0.01 (n-butyl acetate = 1) (solvent)
Flammability (solid, gas):	No data available
Flammability Limit:	LEL = 0.7, UEL = 5.6 vol. % in air (solvent)
Vapour pressure:	4.0 Pa @ 20C (solvent) < 10 <sup>-7</sup> Pa @ 25C (bromoxynil octanoate) 5.7 x 10 <sup>-3</sup> mm Hg @ 25C (MCPA 2EH) 1.349 x 10 <sup>-3</sup> mPa @20C (fluroxypyr MHE)
Vapour density:	5.6 @ 101 kPa (air = 1) (solvent)
Relative Density:	1.135 @ 20C
Solubility (ies):	Negligible in water, emulsifiable Highly soluble in organic solvents
Partition coefficient:	logP = 5.9 @ pH 7, 25C (bromoxynil octanoate) logP = 6.8 (MCPA 2EH) logP = 5.04 @ pH 7 (fluroxypyr MHE)
Auto ignition temperature:	No data available
Decomposition temperature:	>60C (fluroxypyr MHE)
Viscosity(kinematic):	36.75 cSt @ 20C

## 10: STABILITY AND REACTIVITY

Reactivity:	Not reactive.
Chemical Stability:	This material is stable under normal handling and storage conditions.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Excessive heat. Do not store near heat or flame.
Incompatible Materials:	Avoid contact with strong acidic, basic or oxidizing
Hazardous decomposition products:	Under fire conditions, may produce gases such as hydrogen bromide or other bromine compounds, hydrogen chloride, nitrogen oxides and carbon oxides.

## 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation, ingestion, skin and eye contact.
Symptoms of exposure:	Eye contact: May cause eye irritation, generally of minimal degree. Causes redness and tearing. Ingestion: Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation, abdominal pain, central nervous system depression, temporary loss of muscle coordination, decreased blood pressure, fatigue, muscle weakness, muscle spasms, unconsciousness, respiratory failure, or in extreme cases, death. Inhalation: Harmful if inhaled. Vapours could cause coughing, burning, headache, dizziness, respiratory irritation and symptoms similar to those from ingestion.
Medical Conditions Aggravated by Exposure:	Skin exposure may aggravate preexisting skin conditions. Inhalation of mist may aggravate preexisting respiratory conditions.
Acute LD50 Oral:	550 mg/kg (Rat, female)
Acute LD50 Dermal:	>5000 (Rat, male & female)
Acute LC50 Inhalation:	>2.1 (Rat, male & female, 4-hour, nose-only exposure)
Skin Corrosion/Irritation:	Moderately irritating to skin (Rabbit)
Serious eye damage/Irritation:	Mildly irritating to the eye (Rabbit)
Respiratory or Skin	Potential skin sensitizer (Guinea pig)

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Sensitization:	
Germ Cell Mutagenicity:	The weight of evidence is that MCPA and bromoxynil are not mutagenic. Fluroxypyr shows no evidence of genotoxicity. Products similar to the hydrocarbon component are not considered to be mutagenic.
Carcinogenicity:	Bromoxynil phenol has been classified by U.S. EPA in Group C, possible human carcinogen. The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as possibly carcinogenic to humans (Group 2B), the category for limited evidence for carcinogenicity in humans. MCPA was not carcinogenic to rats or mice in lifetime feeding studies. Fluroxypyr shows no evidence of carcinogenicity. Products similar to the hydrocarbon component are not considered to be mutagenic and are unlikely to cause tumors.
Reproductive Toxicity:	Animal reproduction studies with MCPA, bromoxynil phenol and bromoxynil octanoate indicate there is no increased sensitivity of the young relative to maternal animals. Fluroxypyr shows no evidence of reproductive toxicity.

## 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p>Data are from laboratory studies conducted on MCPA-2-ethylhexyl technical.</p> <p>Aquatic Invertebrate: 48-Hour EC50 (mg/L)...0.28 (Daphnia)</p> <p>Fish: 96-Hour LC50 (mg/L): 3.2 (Rainbow Trout), &gt; 3.2 (Bluegill Sunfish)</p> <p>Algae: 120-Hour EC50 (mg ae/L): 0.25 (Selenastrum), 1.2 (Navicula), 0.085 (Skeletonema)</p> <p>Birds: Oral LD50 (mg ae/kg) &gt;2250 (Bobwhite); Dietary LDD50 &gt; 3800 (Bobwhite), &gt; 930 (Mallard) (mg ae/kg bw/d)</p> <p>Bees: Oral LD50 &gt; 250 µg 500 g/L MCPA 2EH formulation/bee</p> <p>Bees: Contact LD50 &gt; 210 µg 500 g/L MCPA 2EH formulation/bee</p> <p>Data are from laboratory studies conducted on bromoxynil octanoate technical.</p> <p>Aquatic Invertebrate: 48-Hour EC50 (mg/L)...0.46 (Daphnia)</p> <p>Fish: 96-Hour LC50 (mg/L)...0.041 (Rainbow Trout), 0.06 (Bluegill Sunfish)</p> <p>Algae: 120-Hour EC50 (mg/L)...0.22 (Selenastrum), 0.043 (Navicula)</p> <p>Birds: Oral LD50 (mg/kg)...170 (Bobwhite), 2350 (Mallard); 5-d Dietary LC50 (ppm) 1315 (Bobwhite), 2150 (Mallard)</p> <p>Bees: LD50: &gt;100 µg/bee (48 h contact), &gt;119.8 µg/bee (96 h oral)</p> <p>Data are for fluroxypyr 1-methylheptyl ester technical, from published sources.</p> <p>Aquatic Invertebrate: 48-Hour EC50 (mg/L) &gt;0.09 (solubility limit) (Daphnia)</p> <p>Fish: 96-Hour LC50 (mg/L) &gt;0.09 (solubility limit) (Rainbow Trout)</p> <p>Algae: 120-Hour EC50 (mg/L) &gt;0.09 (solubility limit) (Selenastrum), 0.093 (Navicula)</p> <p>Birds: Oral LD50 (mg/kg) &gt;2000 (Mallard and Bobwhite)</p> <p>Bees: Oral and Contact LD50 &gt;100 µg/bee</p>
Persistence and Degradability:	MCPA 2EH rapidly hydrolyzes to parent MCPA acid. MCPA is microbially degraded with typical half-life (ester and acid) of 5 to 20 days. Persistent in anaerobic environments. Bromoxynil octanoate degrades readily to bromoxynil phenol by abiotic hydrolysis, photolytic degradation, and microbially-mediated metabolism, in both aerobic and anaerobic environments. Representative soil half-lives are 2 days for the octanoate and 14 days for the phenol. Fluroxypyr MHE is rapidly converted to fluroxypyr acid in all soil types. Fluroxypyr is degraded microbially with representative soil half-lives for fluroxypyr MHE and acid of 11 to 38 days.

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Mobility in Soil:	MCPA and bromoxynil have moderate to high mobility potential, but are rapidly degraded. Field studies with fluroxypyr demonstrate no evidence of significant leaching.
Bioaccumulation Potential:	MCPA and fluroxypyr have negligible potential. Bromoxynil octanoate can bioaccumulate, but will deplete.

### 13: DISPOSAL CONSIDERATIONS

Container Handling and Disposal: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Disposal should be made in accordance with federal, provincial and local regulations.

Do not reuse container for any purpose. If applicable, return container in accordance with return program. If a recyclable container, dispose of at a container collection site. Contact local distributor, dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site, triple or pressure rinse the empty container adding rinsings to spray tank and make container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### 14: TRANSPORT INFORMATION

**Canadian TDG Description (Road & Rail):** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (MCPA Ester, bromoxynil, fluroxypyr), Class 9, PG III, Marine pollutant.

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 a road or railway vehicle.

**United States:** < 119 gallons per completed package: Non Regulated

**DOT Description:** ≥ 119 but < 300 gallons per completed package: UN 3082, Environmentally hazardous substance, liquid, n.o.s., (MCPA ester, Bromoxynil octanoate), 9, III, Marine Pollutant, RQ

≥ 300 gallons per completed package: UN 3082, Environmentally hazardous substance, liquid, n.o.s., (MCPA ester, Bromoxynil octanoate), (Naphthalene), 9, III, Marine Pollutant, RQ

**IMDG (Transport by sea):** UN 3082, Environmentally hazardous substance, liquid, n.o.s., (MCPA ester, Bromoxynil octanoate), 9, III, Marine Pollutant

**IATA (Transport by air):** UN 3082, Environmentally hazardous substance, liquid, n.o.s., (MCPA ester, Bromoxynil octanoate), 9, III, Marine Pollutant

### 15: REGULATORY INFORMATION

*Pest Control Products Act* Registration Number: ..... 34600

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. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:



WARNING POISON  
POTENTIAL SKIN SENSITIZER  
EYE AND SKIN IRRITANT

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WHMIS exempt.

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**16: OTHER INFORMATION**

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Revision Date/Reason:

September 22,2022/ New SDS

Notice:

The enclosed information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Interprovincial Cooperative Limited cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.

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