

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: IPCO BROTEX 4AT
Product Use: Broadleaf Herbicide
Product Number: 33554

Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.
945 Marion St.
Winnipeg, Manitoba
R2J 0K7 www.ipco.ca

Effective Date: 24/02/2020

This product is regulated under authority of the Pest Control Products Act

2: HAZARD IDENTIFICATION

Carcinogenicity, Reproductive toxicity: GHS classification in accordance with 29 CFR 1910.1200:
Category 2
Specific target organ toxicity-single exposure: Category 3
Acute toxicity (Oral): Category 4
Flammable liquids: Category 4

Pictograms:



Signal word: Warning
Hazard statements: Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
Harmful if swallowed.
Combustible liquid.
Precautionary statement: 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.
Avoid breathing mist/ spray.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Keep away from open flames/hot surfaces. - No smoking.
IF exposed or concerned: Get medical advice/ attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
Rinse mouth.
Hazards not otherwise classified (HNOC): No health hazards not otherwise classified.
No physical hazards not otherwise classified.

In case of emergency call CANUTEC at 613-996-6666

Interprovincial Cooperative Ltd.; Information Phone: 204-233-3461

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3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
Mix of octanoic acid 2,6-dibromo-4-cyanophenyl ester and heptanoic ester		55.0 – 65.0
Hydrotreated light petroleum distillates (Solvent Naphtha (Petroleum), heavy aromatic)	64742-94-5	30.0 – 33.0
Other ingredients	Mixture	8.0 – 9.0

Ingredients not listed are proprietary or non-hazardous

4: FIRST AID MEASURES

If inhaled:	Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
Eye contact:	Hold eyes 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. Call a poison control center or doctor for further treatment advice.
Ingestion:	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed:	Aspiration may cause pulmonary oedema and pneumonitis.
Indication of immediate medical attention and special treatment needed, if necessary:	Treatment is symptomatic and supportive. Contains petroleum distillate. Vomiting may cause aspiration pneumonia. There is no specific antidote.

5: FIRE-FIGHTING MEASURES:

Suitable extinguishing media:	Carbon dioxide (CO ₂) Dry chemical Foam
Unsuitable extinguishing media:	Unknown
Specific hazards during firefighting:	Dangerous gases are evolved in the event of a fire.
Special protective equipment for firefighters:	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. Keep out of smoke. Fight fire from upwind position. Avoid contact with spilled product or contaminated surfaces. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses.
Flash point:	63 °C
Auto-ignition temperature:	443 °C / 829.4 °F
Lower explosion limit:	No data available
Upper explosion limit:	7% (V)
Explosivity:	Not applicable

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6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Remove all sources of ignition. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

Additional advice: Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

Reference to other sections: Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

7: HANDLING AND STORAGE

Handling: Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation. Keep away from heat and sources of ignition.

Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.

Hygiene measures: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash thoroughly and put on clean clothing. Avoid contact with skin, eyes and clothing.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:	Chemical Name	LD50Oral	LD50Dermal	LC50Inhalation	T.L.V (ACGIH)
	Bromoxynil Octanoate (CAS-No: 1689-99-2)	333 mg/kg (Rat)	> 2000mL/kg (Rabbit)	>4.36 mg/L (4 Hr) (Rat)	Not established
	Solvent Naphtha (Petroleum), heavy aromatic (CAS-No:64742-94-5)	>3000 mg/kg (Rat)	>3160 mg/kg (Rabbit)	Not established	Total Hydrocarbons: 100 mg/m ³

Personal protective equipment: In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Hand protection: Chemical resistant nitrile rubber gloves

Eye protection: Chemical resistant goggles must be worn.

Skin and body protection: Wear long-sleeved shirt and long pants and shoes plus socks.

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General protective measures: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
 Appearance & Odour: Brown, Colour "Solvent" odour
 Specific Gravity: (@ 20°C): 1.1891
 Vapour density: Solvent Naphtha (Petroleum), Heavy Aromatic: > 4.6 (Air =1)
 Solubility in water: Emulsifies
 Solubility in liquids: Not established
 Freezing point: < 0°C
 % volatile by volume: Not applicable
 Boiling point: Solvent Naphtha (Petroleum), Heavy Aromatic: 184 - 205°C
 Odour threshold (ppm): Not established
 Coefficient of water/oil distribution: Not applicable
 Vapour pressure: Solvent Naphtha (Petroleum), Heavy Aromatic: 0.40 Kpa @ 20°C
 Evaporation rate: Solvent Naphtha (Petroleum), Heavy Aromatic: < 0.06 (n-butyl acetate = 1)
 pH: (1% Sol'n): 4.5
 Viscosity: 14 cps at 20°C
 Flash Point & Method: (°C): 71 (Tag Closed Cup)
 Flammable Limits (% in air): Lower: 1.8 Solvent Naphtha (Petroleum), Heavy Aromatic
 Upper: 11.4 Solvent Naphtha (Petroleum), Heavy Aromatic
 Autoignition Temperature: Solvent Naphtha (Petroleum), Heavy Aromatic: 433°C

10: STABILITY AND REACTIVITY

Thermal decomposition: No data available
 Chemical Stability: Stable under recommended storage conditions.
 Possibility of hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.
 Conditions to avoid: Freezing, Heat, flames and sparks.
 Incompatible Materials: Acids, Bases, Oxidizing agents.
 Hazardous decomposition products: No decomposition products expected under normal conditions of use.

11: TOXICOLOGICAL INFORMATION

Skin Absorption: Acute dermal LD50 (Rat) 2423 mg/kg.
 Ingestion: Acute oral LD50 (rat) 502 mg/kg.
 Inhalation: LC50 7.50 mg/L (4 hr, nose-only exposure) Rat
 T.W.A. (ACGIH): Total Hydrocarbons: 100 mg/m³
 Chronic Health Hazards: Prolonged or repeated exposure may lead to kidney or central nervous system symptoms.
 Mutagenicity Data: There have been some positive and some negative studies, but the weight of evidence is that bromoxynil are not mutagenic.
 Carcinogenicity Data: Bromoxynil phenol has been classified by U.S. EPA in Group C, limited evidence of carcinogenicity in animals. The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, the category for limited evidence for carcinogenicity in humans. A minor ingredient in this product, naphthalene,

Teratogenicity Data:	has been reported by the U.S. National Toxicology Program to be associated with increased nose/lung tumors in laboratory animals via inhalation exposure Based on the results of studies in laboratory animals, bromoxynil phenol is considered to be a developmental toxicant. Women of childbearing age should avoid excessive exposure.
Reproductive Effects:	Animal studies on bromoxynil phenol did not indicate a pattern of reproductive toxicity, but a study on bromoxynil octanoate indicated possible mild male reproductive toxicity at high doses.

12: ECOLOGICAL INFORMATION

	Data on Bromoxynil Octanoate: 96-Hour LC50 (mg/L): 0.1 (Rainbow Trout) 96-Hour LC50 (mg/L): 0.053 (Bluegill) 48-Hour EC50 (mg/L): 0.096 (Daphnia) Oral LD50 (mg/kg): 1150 (Bobwhite Quail) Dietary LC50 (ppm): 1880 (Mallard Duck)
Biodegradability:	Bromoxynil octanoate, heptanoate mixed ester: Not rapidly biodegradable
Koc:	Bromoxynil octanoate: Koc: 630
Bioaccumulation:	Bromoxynil octanoate: Bioconcentration factor (BCF) 230 Does not bioaccumulate.
Mobility in soil:	Bromoxynil octanoate, heptanoate mixed ester: Slightly mobile in soils
Environmental precautions:	Do not allow to get into surface water, drains and ground water. Do not apply when weather conditions favor runoff or drift. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Drift or runoff from treated areas may adversely affect non-target plants.

13: DISPOSAL CONSIDERATIONS

Product:	Dispose in accordance with all local, state/provincial and federal regulations. Follow container label instructions for disposal of wastes generated during use in compliance with the product label.
Contaminated Packaging:	Do not re-use empty containers. Triple rinse containers. Add washings to sprayer at time of filling. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

14: TRANSPORT INFORMATION

TDG

UN number: 3082
Labels: 9
Packaging group: III
Marine pollutant: Marine pollutant
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(BROMOXYNIL)

49CFR

UN number: 3082
Class: 9
Packaging group: III

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Marine pollutant: Marine pollutant

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.(BROMOXYNIL)

RQ: Reportable Quantity is reached with 1,785 lb. of product.

IMDG

UN number: 3082

Class: 9

Packaging group: III

Marine pollutant: YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BROMOXYNIL SOLUTION)

IATA

UN number: 3082

Class: 9

Packaging group: III

Environm. Hazardous Mark: YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BROMOXYNIL SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Further Information: Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1. This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

15: REGULATORY INFORMATION

PCP Registration No: 33554

US Federal Regulations TSCA list: Solvent Naphtha (petroleum), heavy aromatic (CAS-No: 64742-94-5)

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D): Not applicable.

SARA Title III - Section 302 - Notification and Information: None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting: None.

US States Regulatory Reporting CA Prop65: None.

US State Right-To-Know Ingredients: Solvent Naphtha (petroleum), heavy aromatic (CAS-No: 64742-94-5)

Canadian Regulations-Canadian Domestic Substance List: Solvent Naphtha (petroleum), heavy aromatic 64742-94-5

Environmental-CERCLA: None.

Clean Water Section 307 Priority Pollutants: None.

Safe Drinking Water Act Maximum Contaminant Levels: None.

16: OTHER INFORMATION

NFPA Classification:	Health Hazard: 1 Flammability: 2 Instability: 0
HMIS Classification:	Health Hazard: 1 Flammability: 2 Physical Hazard: 0 0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard
Revision Date:	29/04/2020 (Reason: IPCO Logo update)
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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