

Interprovincial Cooperative Limited

BROTEX 240

MATERIAL SAFETY DATA SHEET

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Brotex 240*
Product Use: Herbicide
Product Number: 28519

Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.

945 Marion St. Winnipeg, Manitoba R2J 0K7 <u>www.ipco.ca</u>

Effective Date: June 17, 2016

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

2: HAZARD IDENTIFICATION

Effects of Overexposure:

Route of Exposure: Inhalation, eye contact, skin contact, ingestion.

Inhalation May cause headaches, nausea, and lack of coordination. May be harmful if inhaled...

Eye Contact Mildly irritating.

Skin Contact Warning Skin irritant. Potential skin sensitizer.

Ingestion May be harmful if swallowed. Aspiration can be a hazard if this material is swallowed. Will

cause vomiting, nausea, diarrhea

3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
Bromoxynil Octanoate	1689-99-2	57.57 – 61.13
Hydrotreated light petroleum distillates	64742-47-8	33.80 - 35.90
Other ingredients		5.51 – 6.09
Naphthalene	91-20-3	
1, 2, 4-Trimethylbenzene	95-63-6	

Ingredients not listed are proprietary or non-hazardous

4: FIRST AID MEASURES

In case of poisoning, call a physician or poison control centre IMMEDIATELY.

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.

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: Flush skin with running water, and then continue flushing with running water for 5 - 10

minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat

flushing. Obtain medical attention IMMEDIATELY.

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Eyes: 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.

Take container, label or product name and Pest Control Product Registration Number

with you when seeking medical attention

Emergency Medical Care: No specific antidote. Treatment of any systemic intoxication should be primarily

symptomatic and supportive. Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Do not induce vomiting. This product may cause mild irritation to the eyes. Overexposure to Bromoxynil may cause coughing, burning, dizziness or temporary loss of muscle co-ordination. Other possible effects of overexposure include fatigue, muscle

weakness or nausea.

5: FIRE-FIGHTING MEASURES

Unusual Fire &

Explosion Hazards: Toxic fumes under high temperature conditions. Contain water from fire fighting to

prevent entry into water supplies...

Noxious fumes under fire conditions.

Extinguishing Media: Special Oxidizing Material Carbon Dioxide, Foam, Water Fog, and Dry Chemical

Hazards:

Hazardous Combustion

Not Established

Products:

Special Fire Fighting

Procedures: Use water spray to cool fires exposed containers or structures. Use water spray to

disperse vapours; re-ignition is possible. Use self-contained breathing apparatus and

protective clothing.

6: ACCIDENTAL RELEASE MEASURES

In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

7: HANDLING AND STORAGE

Store in a cool, well-ventilated area. Keep away from heat, sparks and filling of containers. Keep away from children; prevent contact with eyes, skin, and clothing. Do not store near fertilizers, foodstuffs, seed, insecticides or fungicides.

Do not contaminate irrigation ditches or domestic water supplies. If this happens notify police and local authorities.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Bromoxynil Octanoate

 LD50-ORAL:
 333 mg/kg Rat

 LD50-DERMAL:
 > 2000 mg/kg Rabbit

 T.L.V. (ACGIH):
 Not Established

 LC50:
 > 4.36 mg/L (4 hrs) Rat

Solvent Naphtha (Petroleum), Heavy Aromatic LD50-ORAL: > 3, 000 mg/kg Rat LD50-DERMAL: > 3160 mg/kg Rabbit

T.L.V. (ACGIH): Total Hydrocarbons: 100 mg/m³

_C50: Not Established

Special Engineering Controls: Local exhaust ventilation required.

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CSA approved safety glasses with side shields or goggles. Eye Protection:

Respiratory Protection: A NIOSH/MSHA approved air-purifying respirator equipped with organic vapor cartridges

near or below TLV. Air supplied respirator above TLV or unknown concentrations.

Hand and Arm: PVC or rubber gloves.

Rubber boots. Feet: Body: Coveralls.

Other Personal Protection: Recommendations listed above indicate the type of equipment which will provide

> protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for

specific protective devices at your workplace.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance & Odour: Brown, Colour "Solvent" odour

Specific Gravity: (@ 20°c): 1.1200

Vapour density: Solvent Naphtha (Petroleum), Heavy Aromatic: > 4.6 (Air =1)

Solubility in water: **Emulsifies** Solubility in liquids: Not established

 $< 0^{0} c$ Freezing point:

Not applicable % volatile by volume:

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): 65 (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

Decomposition Temp: Not Established

Stable under normal conditions. Stability: Materials to Avoid: Acidic, basic or oxidizing agents

Hazardous Decomposition

Products: Hydrogen Chloride, Carbon Dioxide, Carbon Monoxide, and other chloride compounds

Hazardous Polymerization

or Condensation: Will not occur.

Conditions to Avoid: High temperatures, sparks, open flames, and all other sources of ignition.

11: TOXICOLOGICAL INFORMATION

Skin Absorption: Acute dermal LD50 (Rat) 3172 mg/kg. Ingestion: Acute oralLD50 (rat) 726 mg/kg.

Inhalation: LC50 7.66 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.

There have been some positive and some negative studies, but the weight of evidence is Mutagenicity Data:

that bromoxynil are not mutagenic...

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Bromoxynil phenol has been classified by U.S. EPA in Group C, limited evidence of Carcinogenicity Data:

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, has been reported by the U.S. National Toxicology Program to be associated with

increased nose/lung tumors in laboratory animals via inhalation exposure

Teratogenicity Data: 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.

Animal studies on bromoxynil phenol did not indicate a pattern of reproductive toxicity, but Reproductive Effects:

a study on bromoxynil octanoate indicated possible mild male reproductive toxicity at high

doses.

12: ECOLOGICAL INFORMATION

Data on 2Bromoxynil 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)

Chemical Fate Information: Bromoxynil octanoate ester degrades readily to bromoxynil phenol in the environment. Representative soil half-lives are 2 days for the octanoate and 14 days for the phenol.

13: DISPOSAL CONSIDERATIONS

Dispose of waste materials in an approved incinerator or waste treatment/disposal facility in accordance with applicable regulations. Do not dispose of wastes in local sewer or with normal waste

14: TRANSPORT INFORMATION

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bromoxynil), Class 9, PG III

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.

15: REGULATORY INFORMATION

Pest Control Products Act

Registration Number: 28519

For Information Phone: 204-233-3461

MSDS Status/ **Revised Sections:**

Replaces MSDS Dated: December 10, 2013

16: OTHER INFORMATION

WHMIS Ratings: B3, D2B

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, IPCO cannot guarantee its accuracy and assumes no responsibility for conditions resulting

from its use.

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