

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: IPCO Contender II Herbicide
Pest Control Product Number: 33960
Product Use: Agrochemicals/Herbicide
Manufacturer/Supplier: INTERPROVINCIAL COOPERATIVE LTD.
945 Marion St.
Winnipeg, Manitoba
R2J 0K7
www.ipco.ca
Effective Date: 14/12/2020
This product is regulated under authority of the Pest Control Products Act

2: HAZARD IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200:

Acute toxicity -Inhalation	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity, single exposure	Category 3 narcotic effects
Specific target organ toxicity, repeated exposure	Category 2
Aspiration hazard	Category 1
Hazardous to the aquatic environment, acute hazard	Category 1
Hazardous to the aquatic environment, long-term hazard	Category 2

Pictograms:



Signal word: **Danger**
Hazard statements: Harmful if inhaled. Causes skin irritation. Causes serious eye damage. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs (Liver) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statement: **Prevention:**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. Wear protective gloves. Use personal protective equipment as required. Avoid release to the environment.
Response:
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.

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

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If skin irritation occurs: Get medical advice/attention.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor. If exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
 Storage:
 Store in a well-ventilated place. Keep container tightly closed. Store locked up.
 Disposal:
 Dispose of contents/container in accordance with local/regional/national/international regulations.
 Other hazards: None known.

3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	%(W/W)
Quizalofop-p-ethyl (Ethyl (R)-2-[4-(6-chloroquinoxalin-2-yloxy)phenoxy]propionate)	100646-51-3	10.3%
Solvent Naphtha, Petroleum, Heavy Aromatic ND	64742-94-5	70-80%
N-Methylpyrrolidone	872-50-4	5-10%
Aromatic Petroleum Distillates	64742-95-6	1-5%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4: FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician.

Skin Contact: Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact: Rinse with water. Get medical attention if irritation develops and persists.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects, both acute and delayed: Aspiration may cause pulmonary edema and pneumonitis. Headache. Nausea, vomiting. Diarrhea. Skin irritation. May cause redness and pain.

Indication of any immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General Information: If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
 Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

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Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions: Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.
 Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
 Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7: HANDLING AND STORAGE

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Storage: Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits:

Components	US. ACGIH TLV	Canada Alberta OELS	Canada British Columbia OELS	Canada Manitoba OELS	Canada Ontario OELS	Canada Saskatchewan OELS
Solvent Naphtha, Petroleum, Heavy Aromatic ND (CAS 64742-94-5)	TWA: 200 mg/m3 Form: Non-aerosol	TWA: 200 mg/m3 Form: Vapor	TWA: 200 mg/m3 Form: Non-aerosol	TWA: 200 mg/m3 Form: Non-aerosol	TWA: 400 mg/m3	15 minute: 250 mg/m3 8 hour: 200 mg/m3 Form: Vapor

Biological limit values:

Components	ACGIH Biological Exposure Indices
N-Methylpyrrolidone (CAS 872-50-4)	Value: 100 mg/l Determinant: 5-Hydroxy-N-m ethyl-2-pyrrolid one Specimen: Urine

Exposure guidelines:

Components	US. ACGIH TLV	Canada Alberta OELS	Canada British Columbia OELS	Canada Manitoba OELS	Canada Ontario OELS	Canada Saskatchewan OELS
Solvent Naphtha, Petroleum, Heavy Aromatic ND (CAS 64742-94-5)	Skin designation: Can be absorbed through the skin	Skin designation: Can be absorbed through the skin	Skin designation: Can be absorbed through the skin	Skin designation: Can be absorbed through the skin	Skin designation: Can be absorbed through the skin	Skin designation: Can be absorbed through the skin

Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Personal protective equipment:

Eye/Face protection:

Chemical respirator with organic vapor cartridge and full facepiece.

Skin and hand protection:

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection:

Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards:

Wear appropriate thermal protective clothing, when necessary.

General hygiene consideration:

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State:

Liquid

Form:

Liquid.

Color:

Dark amber

Odor:

Aromatic solvent

Odor threshold:

No data available

pH:

No data available

Melting point:

No data available

Freezing point:

No data available

Boiling point:

No data available

Flash point:

210 °F (99 °C)

Evaporation rate:

No data available

Flammability (solid, gas):

No data available

Flammability Limit in Air

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Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Water Solubility:	Emulsifiable
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Other information	
Density:	1.02 g/cm ³
Explosive properties:	Not explosive
Flammability class:	Combustible IIIB estimated
Oxidizing properties	Not oxidizing
pH in aqueous solution:	5 - 7 1% solution

10: STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Peroxides. Phenols.
Hazardous decomposition products:	No hazardous decomposition products are known.

11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:	
Inhalation:	Toxic if inhaled
Skin contact:	Causes skin irritation.
Eye contact:	Direct contact with eyes may cause temporary irritation.
Ingestion:	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics:	Aspiration may cause pulmonary edema and pneumonitis. Headache. Nausea, vomiting. Diarrhea. Skin irritation. May cause redness and pain.
Information on toxicological effects:	
Acute toxicity:	May be fatal if swallowed and enters airways. Toxic if inhaled.
LD50 Dermal:	>2000 mg/kg (rabbit)
LD50 Oral:	5900 mg/kg (rat)
LC50 Inhalation:	2.6 - 4.4 mg/l, 4 h (rat)
Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/eye irritation:	Direct contact with eyes may cause temporary irritation.

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Respiratory sensitization: Not a respiratory sensitizer.
 Skin sensitization: This product is not expected to cause skin sensitization.
 Germ cell mutagenicity: May cause genetic defects.
 Carcinogenicity: May cause cancer.
 ACGIH Carcinogens: Solvent Naphtha, Petroleum, Heavy Aromatic ND (CAS 64742-94-5): A3 Confirmed animal carcinogen with unknown relevance to humans.
 Canada - Manitoba OELs carcinogenicity: Solvent Naphtha, Petroleum, Heavy Aromatic ND (CAS 64742-94-5): Confirmed animal carcinogen with unknown relevance to humans.
 IARC Monographs. Overall Evaluation of Carcinogenicity: Aromatic Petroleum Distillates (CAS 64742-95-6): 3 Not classifiable as to carcinogenicity to humans. Not listed.

Reproductive toxicity: May damage fertility or the unborn child.
 STOT - single exposure: Not classified.
 STOT - repeated exposure: Not classified.
 Aspiration hazard: May be fatal if swallowed and enters airways.
 Chronic effects: Prolonged inhalation may be harmful.

12: ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Duration	Species	Value
Quizalofop-p-ethyl (CAS 100646-51-3)	21d NOEC	Crustacea (Daphnia magna)	0.787 mg/L
	72h EC50	Algae (Pseudokirchnerella subcapitata)	0.021 mg/L
	48h EC50	Crustacea (Daphnia magna)	51.9 mg/L
	96h LC50	Fish (Rainbow trout, donaldson trout (Oncorhynchus mykiss))	0.72 mg/L

Persistence and degradability: No data is available on the degradability of any ingredients in the mixture..
 Bioaccumulation:
 Partition coefficient n-octanol / water (log Kow): N-Methylpyrrolidone: -0.54
 Solvent Naphtha, Petroleum, Heavy Aromatic ND: > 3
 Mobility: No data available.
 Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13: DISPOSAL CONSIDERATIONS

Disposal methods instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
 Local disposal regulations: Dispose in accordance with all applicable regulations.
 Waste from residues / unused Products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
 Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14: TRANSPORT INFORMATION**TDG:**

UN Number: UN3082
 Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Quizalofop-p-ethyl)
 Transport Hazard Class: 9
 Packing Group: III
 Environmental hazard: Yes
 Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

IMDG (Transport by sea):

UN Number: UN3082
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quizalofop-p-ethyl), MARINE POLLUTANT
 Transport Hazard Class: 9
 Packing Group: III
 Environmental Hazard: Yes
 EmS: F-A, S-F
 Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not established.

IATA (Transport by air):

UN Number: UN3082
 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Quizalofop-p-ethyl)
 Transport Hazard Class: 9
 Packing Group: III
 Environmental Hazard: Yes
 ERG Code: 9L
 Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
 Passenger and cargo aircraft: Allowed with restrictions.
 Cargo aircraft only: Allowed with restrictions.

General information: This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 450 L (119 gallons) or less. IMDG Regulated Marine Pollutant.

15: REGULATORY INFORMATION**Canadian Regulations**

This product is registered under the Pest Control Product Act of Canada. It is a violation of Canadian Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions.

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DANGER – CORROSIVE TO EYES

WARNING - SKIN IRRITANT

POTENTIAL SKIN SENSITIZER

Keep Out of Reach of Children.

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

“There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

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Controlled Drugs and Substances Act: Not regulated.
 Export Control List (CEPA 1999, Schedule 3): Not listed.
 Greenhouse Gases: Not listed.
 Precursor Control Regulations: Not regulated.

International regulations

Stockholm Convention: Not applicable.
 Rotterdam Convention: Not applicable.
 Kyoto protocol: Not applicable.
 Montreal Protocol: Not applicable.
 Basel Convention: Not applicable.

International Inventories

Country(s) or region	Inventory name On	inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16: OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 0	Instability 0
WHMIS	Health Hazards 3	Flammability 0	Physical hazard 0

NFPA/WHMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Revision Date/Reason: December 14, 2020/ New SDS
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