1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	IPCO Tetra
Pest Control Product Number:	35453
Product Use:	Agrochemicals/Herbicide
Manufacturer /Supplier:	INTERPROVINCIAL COOPERATIVE LTD. 945 Marion St. Winnipeg, Manitoba R2J 0K7 www.ipco.ca
Effective Date:	March 13, 2025
	This product is regulated under authority of the Pest Control Products Act

2: HAZARD IDENTIFICATION

	GHS classification in accordance with the Hazardous Products Regulations:
Acute toxicity - Inhalation (Dusts/Mists):	Category 4
Reproductive toxicity:	Category 2
Specific Target Organ Toxicity Repeated Exposure (Bone Marrow):	Category 2
Hazard picograms	
Signal word:	WARNING
Hazard statements:	Harmful if inhaled. Suspected of damaging fertility or the unborn child. May cause damage to bone marrow.
Precautionary statements:	Prevention: Do not breathe fume/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Obtain, read and follow all safety instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. IF EXPOSED OR CONCERNED: Get emergency medical help immediately. Storage: Store locked up. Disposal: Dispose of contents/container in accordance with local regulations.
Other hazards:	Very toxic to aquatic life.

3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Flumioxazin	103361-09-7	41.4	-	-
Others	Various CAS#s	58.6	-	-

Other ingredients are considered non-hazardous.

4: FIRST AID MEASURES

General Advice:	Show this safety data sheet to the doctor in attendance.
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.
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.
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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
Note to physicians:	Treat symptomatically.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water fog, carbon dioxide, foam, dry chemical.
Large Fire:	Do NOT use water jet or straight streams.
Unsuitable extinguishing media:	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the compound:	Will not burn but if involved in a fire toxic fumes may be evolved. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for firefighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and firefighting equipment before reusing. Read the entire document.
Hazardous combustion products:	Thermal decomposition or combustion may produce harmful/irritant gas or fume such as nitrogen oxides, carbon oxides, hydrogen fluoride or organic compounds.
Special protective equipment for fire-fighters:	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Methods for containment:	Avoid runoff into storm sewers and ditches which lead to waterways, or other bodies of water. Contain spilled liquids with dry sorbents.

Methods for cleaning up: Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent. Vacuum or sweep up sorbent material and place into chemical waste container.

7: HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep/store only in original container. Keep out of the reach of children. Do not contaminate food or feed stuffs. Do not put formulation or dilute spray solution into food or drink containers. Store locked up.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters:

Exposure Limits:

Chemical name	Alberta	British Columbia	Ontario	Quebec
Propylene glycol	None	None	TWA: 10 mg/m³ TWA: 50 ppm TWA: 155 mg/m³	None

Engineering controls: Showers. Eyewash stations. Ventilation systems.

Eye/Face protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear chemical-resistant gloves.

Skin and body protection: Mixer/Loader/Clean-up and Repair (open cab) requires cotton overalls over long-sleeved shirt, pants, socks and shoes.

Mixer/Loader/Clean-up and Repair (closed cab) require chemical-resistant overalls overlong-sleeved shirt, long pants, sock and shoes.

Application with a backpack/manually pressurized hand wand or with a ground boom (open or closed cab) requires long-sleeved shirt, long pants, socks and shoes.

Application with a Right-of-Way sprayer or with a Mechanically pressurized handgun requires chemical-resistant overalls over long-sleeved shirt, pants, socks and shoes.

Respiratory protection: No respiratory protection is required, except when using a mechanically pressurized handgun for application. An appropriate NIOSH-approved cartridge or canister is then required, as described on the label.

General hygiene considerations: Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky liquid

Color: Off-white

Odor: Moderately sour

Odor threshold: No data available

pH: 6.4 @ 25°C (1% w/w)

Melting point: No data available

Freezing point:	Not applicable
Boiling point:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Specific gravity:	No data available
Solubility (ies):	No data available
Partition coefficient:	No data available
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	487.2 cPs @ 24° C
	266.8 cPs @ 43° C
Explosive properties:	No data available
Oxidizing properties:	No data available
Liquid density:	1.157 g/ml

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:	None known based on information supplied.
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition products:	Thermal decomposition or combustion may produce harmful gas or fume such as nitrogen oxides, carbon oxides, hydrogen fluoride or organic compounds.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity LD50 Oral (rats):	>5000 mg/kg EPA Tox Category	(IV)
Dermal Toxicity LD50 Dermal (rabbits):	>5000 mg/kg EPA Tox Category	(IV)
Inhalation Toxicity LC50 (rats):	>2.10 mg/m3 EPA Tox Category	(IV)
Eye irritation (rabbits):	Non-irritating EPA Tox Category	(IV)
Skin irritation (rabbits):	Slightly irritating EPA Tox Category	(IV)
Skin sensitization (quinea pigs):	Non-sensitizer (LLNA) EPA Tox Category (Not applicable)	

Carcinogenicity:

Chemical name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
None	Not listed	Not listed	Not listed

Toxicity of Flumioxazin Technical:

Sub-chronic:	Flumioxazin Technical in rats the lowest no-observable-effect-level (NOEL) in sub-chronic studies was 30 ppm in the three-month toxicity study in rats.
Chronic/Carcinogenicity:	In a one-year dog feeding study, the NOELis 10 mg/kg/day. There was no evidence of any treatment-related oncogenic effect. The NOEL for this study is 300 ppm.

	Dietary administration of Flumioxazin Technical for 24 months in rats no evidence of an oncogenic effect was observed. The NOEL for this study is 50 ppm.
Developmental Toxicity:	Flumioxazin no developmental toxicity was noted in rabbits at doses up to 3000 mg/kg/day, a dose well above the maternal NOEL of 1000 mg/kg/day. Mechanistic studies indicate that the effects seen in the rat are highly unlikely to occur in the human and that flumioxazin would not be a developmental toxicant in the human.
Reproduction:	Reproductive toxicity was observed in F1 males, P1 females and F1 females at 300 ppm Flumioxazin Technical, the highest dose tested and a dose that also produced signs of systemic toxicity. Toxicity was also observed in the F1 and F2 offspring at doses of 200 ppm and greater.
Mutagenicity:	Flumioxazin Technical was not mutagenic in most in-vitro assays: gene mutation and chromosome aberration assay in the absence of metabolic activation. In three vivo assays, chromosome aberration, unscheduled DNA synthesis and micronucleus assay, Flumioxazin Technical was not mutagenic. The only positive response was observed in the in vitro chromosome aberration assay in the presence of metabolic activation. Overall, Flumioxazin Technical does not present a genetic hazard.
Specific Target Organ Toxicity:	Repeated exposure Cat 2 - Rat 90-day repeated dose toxicity study: Bone marrow.

12: ECOLOGICAL INFORMATION

Avian toxicity:	Based upon EPA designation, Flumioxazin Technical is practically non-toxic to avian species. The following results were obtained from studies with Flumioxazin Technical: Oral LD50 Bobwhite Quail: greater than 2,250 ppm Oral LD50 Mallard Duck: greater than 2,250 ppm Dietary LC50 Bobwhite Quail: greater than 5,620 ppm Dietary LC50 Mallard Duck: greater than 5,620 ppm
Aquatic organisms' toxicity:	Based upon EPA designation, Flumioxazin Technical is slightly to moderately toxic to freshwater fish; moderately toxic to freshwater invertebrates; moderately toxic to estuarine/marine fish and moderately to highly toxic estuarine/marine invertebrates, based on the following tests: 96-hour LC50 rainbow trout: 2.3 mg/L 96-hour LC50 bluegill sunfish: > 21 mg/L 48-hour LC50 Daphnia magna: > 5.5 mg/L
Other than non-target organism toxicity:	Flumioxazin Technical is practically non-toxic to bees. The acute contact LC50 in bees was > 105 µg/bee.

13: DISPOSAL CONSIDERATIONS

Waste from residues/unused Products:	Canadian formulators using this product should dispose of unwanted active ingredient and containers in accordance with municipal or provincial regulations. For information on disposal or unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.
Contaminated packaging:	Do not reuse empty containers. Triple- or pressure-rinse the container. Add the rinsings to the spray mixture in the tank. Make the empty 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

DOT/TDG (ground):	Not regulated for domestic ground transport by US DOT or Canada TDG.
ICAO/IATA:	UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Flumioxazin), 9, III, Marine Pollutant

Remarks: Single or inner packaging less than 5 L (liquids) or 5 kg net (solids) excepted from Dangerous Goods regulations -- see IATA Special Provision A197.

IMDG: UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Flumioxazin), 9, III, Marine Pollutant

Remarks: Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IMDG 2.10.2.7

15: REGULATORY INFORMATION

Pest Control Products Act Registration Number: 35453

Pesticide products in Canada are registered by Pest Management Regulatory Agency (PMRA) and are subject to certain labeling requirements under federal pesticide law. The label, as specified in the Pest Control Products Act (PCPA), is the main document to be followed for safety, use, and handling. These label requirements may differ from the classification criteria and hazard information required under WHMIS GHS for the data sheets and for workplace labels of non-pesticide chemicals. The following hazard information is required on the product label:

PMRA SIGNAL WORD: No Signal Word Assigned

PMRA pesticide label hazard information: Keep out of reach of children. Avoid breathing dust or spray mist. Avoid contact with eyes, skin and clothing.

Chemical name	Canada - WHMIS - Ingredient Disclosure List
Others	Non-controlled

Chemical name	Canada DSL Inventory List -	Canada NDSL Inventory List -	EINECS Inventory List -
Propylene glycol	Present		Present

PESTICIDE REGULATIONS: All pesticides are governed under PCPA. Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

PROVINCIAL REGULATIONS: This product did not trigger any provincial regulations.

16: OTHER INFORMATION

Revision Date/Reason: March 13, 2025/ 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.