



IPCO WARRANT

SAFETY DATA SHEET

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: IPCO Warrant Herbicide
Pest Control Product Number: 35378
Product Use: Agrochemicals/Herbicide
Manufacturer/Supplier: INTERPROVINCIAL COOPERATIVE LTD.
945 Marion St.
Winnipeg, Manitoba
R2J 0K7
www.ipco.ca
Effective Date: January 22, 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: Not a hazardous substance or mixture
GHS label elements: No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required
Other hazards: None known

3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Clopyralid-dimethylammonium salt	Clopyralid-dimethylammonium salt	1096483-37-2	60.22
Balance	Balance	Not Assigned	39.78

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

4: FIRST AID MEASURES

Inhalation: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc.). Call a poison control center 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 center or doctor for 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 eyes. Call a poison control center or doctor for treatment advice.
Ingestion: No emergency medical treatment necessary.
Most important symptoms and effects, both acute and delayed: None known
Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective

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Note to physician:	equipment.
	No specific antidote.
	Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
	Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor or going for treatment.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray
	Alcohol-resistant foam
Unsuitable extinguishing media:	None known
Specific hazards arising from the chemical:	Exposure to combustion products may be a hazard to health. Do not allow run-off from firefighting to enter drains or water courses.
Hazardous combustion products:	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
	Combustion products may include and are not limited to: Nitrogen oxides (NOx) Hydrogen chloride gas Carbon oxides
Specific extinguishing methods:	Remove undamaged containers from fire area if it is safe to do so.
	Evacuate area.
	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Use water spray to cool unopened containers.
Further information:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
	Use personal protective equipment.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.
	Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Environmental precautions:	If the product contaminates rivers and lakes or drains inform respective authorities.
	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
	Prevent from entering into soil, ditches, sewers, underwater. See Section 12, Ecological Information.
Methods and materials for containment and cleaning up:	Clean up the remaining materials from spill with suitable absorbent.
	Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.
	For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reactions with spilled materials can take place which could lead to over pressurization of the container.

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Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Neutralize with chalk, alkali solution or ammonia.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

See Section 13, Disposal Considerations, for additional information.

7: HANDLING AND STORAGE

Precautions for safe handling:	Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the application area. Take care to prevent spills, waste and minimize release to the environment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Conditions for safe storage:	Store in a closed container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid:	Do not store near acids. Strong oxidizing agents
Packaging material:	Unsuitable materials: None known

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

Engineering measures:	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
Personal protective equipment:	
Respiratory protection:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.
Hand protection:	Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
Eye protection:	Use safety glasses (with side shields).
Skin and body protection:	Wear clean, body-covering clothing.

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9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Blue
Odor:	Characteristic
Odor threshold:	No data available
pH:	3.7 (21.0 °C)
	Concentration: 1 % Method: pH Electrode (1% aqueous suspension)
Melting point:	Not applicable
Freezing point:	No data available
Boiling point:	No data available
Flash point:	> 100 °C Method: Pensky-Martens Closed Cup ASTM D 93, closed cup
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Relative Density:	1.229 (20 °C)
Water Solubility:	No data available
Auto ignition temperature:	No data available
Viscosity, dynamic:	13.4 mPa,s (20 °C)
	6.7 mPa,s (40 °C)
Explosive properties	No
Oxidizing properties	No significant increase (>5C) in temperature.

10: STABILITY AND REACTIVITY

Reactivity:	Not classified as a reactivity hazard.
Chemical Stability:	No decomposition if stored and applied as directed. Stable under normal conditions.
Possibility of hazardous reactions:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid:	None known
Incompatible Materials:	Strong acids Strong bases
Hazardous decomposition products:	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Nitrogen oxides (NOx) Hydrogen chloride gas Carbon oxides

11: TOXICOLOGICAL INFORMATION**Acute Toxicity****Product:**

Acute oral toxicity:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 423
	Remarks: Information source: Internal study report

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Acute inhalation toxicity: LC50 (Rat, male and female): > 5.12 mg/l Exposure time: 4 h
Remarks: Information source: Internal study report

Acute dermal toxicity: LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402
Remarks: Information source: Internal study report

Components:**Clopyralid-
dimethylammonium salt:**

Acute Oral toxicity: LD50 (Rat): > 2,000 mg/kg
Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute oral toxicity
Remarks: For similar material(s):

Acute inhalation toxicity: LC50 (Rat): > 5.12 mg/l Exposure time: 4 h
Test atmosphere: dust/mist
Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: For similar material(s):

Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kg
Remarks: For similar material(s):

Skin corrosion/irritation:

Product: Species: Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
Remarks: Information source: Internal study report

**Respiratory or skin
sensitization:**

Product: Test Type :Local lymph node assay (LLNA)
Species: Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitization.
Remarks: Information source: Internal study report

Components:**Clopyralid-
dimethylammonium salt:**

Remarks: For similar material(s): Did not demonstrate the potential for contact allergy in mice.

Remarks: For respiratory sensitization: No relevant data found.

Germ cell mutagenicity:**Components:****Clopyralid-
dimethylammonium salt:**

Germ cell mutagenicity - Assessment: For similar active ingredient(s), Clopyralid., In vitro genetic toxicity studies were negative.
Animal genetic toxicity studies were negative.

Carcinogenicity:**Components:****Clopyralid-
dimethylammonium salt:**

Carcinogenicity - Assessment: For similar active ingredient(s), Clopyralid., Did not cause cancer in laboratory animals.

Reproductive toxicity:**Components:****Clopyralid-**

Reproductive toxicity - Assessment: For similar active ingredient(s), Clopyralid., In

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dimethylammonium salt:

animal studies, did not interfere with reproduction.

For similar active ingredient(s), Clopyralid caused birth defects in test animals, but only at greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected during normal exposure.

STOT - single exposure:**Product:**

Assessment:

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Components:**Clopyralid-dimethylammonium salt:**

Assessment:

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

STOT - repeated exposure:**Product:**

Assessment:

Evaluation of available data suggests that this material is not an STOT-RE toxicant.

Repeated dose toxicity:**Components:****Clopyralid-dimethylammonium salt:**

Remarks: For similar active ingredient(s). Clopyralid.

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Aspiration toxicity:**Product:**

Based on physical properties, not likely to be an aspiration hazard.

Components:**Clopyralid-dimethylammonium salt:**

Based on physical properties, not likely to be an aspiration hazard.

12: ECOLOGICAL INFORMATION**Ecotoxicity:****Components:****Clopyralid-dimethylammonium salt:**

Toxicity to fish:

Remarks: For similar material(s):

Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L).

LC50 (Oncorhynchus mykiss (rainbow trout)): > 99.9 mg/l Exposure time: 96 h

Test Type: static test

Remarks: For similar material(s):

LC50 (Lepomis macrochirus (Bluegill sunfish)): > 102 mg/l Exposure time: 96 h

Remarks: For similar material(s):

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): > 99 mg/l Exposure time: 48 h

Test Type: static test

Remarks: For similar material(s):

Toxicity to algae/aquatic plants:

ErC50 (Pseudokirchneriella subcapitata (green algae)): 33.1 mg/l

End point: Growth rate inhibition Exposure time: 96 h

Remarks: For similar material(s):

ErC50 (Myriophyllum spicatum): > 3 mg/l Exposure time: 14 d

Remarks: For similar material(s):

NOEC (Myriophyllum spicatum): 0.0089 mg/l Exposure time: 14 d

Remarks: For similar material(s):

M-Factor (Chronic aquatic

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toxicity):

Ecotoxicology Assessment:

Acute aquatic toxicity:

Toxic to aquatic life.

Chronic aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

Persistence and degradability:**Components:**

Clopyralid-dimethylammonium salt:

Biodegradability:

Remarks: For similar active ingredient(s). Clopyralid.

Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Bio accumulative potential:**Components:**

Clopyralid-dimethylammonium salt:

Partition coefficient: n-octanol/water:

Remarks: For similar active ingredient(s). Clopyralid.

Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Balance:

Partition coefficient: n-octanol/water:

Remarks: No relevant data found.

Mobility in soil:**Components:**

Clopyralid-dimethylammonium salt:

Distribution among environmental compartments:

Remarks: For similar active ingredient(s).

Clopyralid. Potential for mobility in soil is very high (Koc between 0 and 50).

Balance:

Distribution among environmental compartments:

Remarks: No relevant data found.

Other adverse effects:**Components:**

Clopyralid-dimethylammonium salt:

Results of PBT and vPvB assessment:

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential:

Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Balance:

Results of PBT and vPvB assessment:

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential:

Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

13: DISPOSAL CONSIDERATIONS

Disposal methods:

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if

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the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material supplied becomes a waste, follow all applicable regional, national and local laws.

14: TRANSPORT INFORMATION

UNRTDG:

UN/ID No: UN3082
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Clopyralid-dimethylammonium salt)
 Hazard class: 9
 Packaging Group: III
 Labels: 9
 Environmentally hazardous: yes

IATA-DGR:

UN/ID No: UN3082
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Clopyralid-dimethylammonium salt)
 Hazard class: 9
 Packaging Group: III
 Labels: Miscellaneous
 Packing instruction (cargo aircraft): 964
 Packing instruction (passenger aircraft): 964

IMDG-Code:

UN/ID No: UN3082
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Clopyralid-dimethylammonium salt)
 Hazard class: 9
 Packaging Group: III
 Labels: 9
 EmS Code: F-A, S-F
 Marine pollutant: Yes (Clopyralid-dimethylammonium salt)
 Remarks: Storage category A
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

TDG:

UN/ID No: UN3082
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Clopyralid-dimethylammonium salt)
 Hazard class: 9
 Packaging Group: III
 Labels: 9
 ERG Code: 171
 Marine pollutant: Yes (Clopyralid-dimethylammonium salt)

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Further Information:

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

Special precautions for user:

The transport classification(s) provided herein are for informational purposes only and solely based upon the properties of the unpackaged material as is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15: REGULATORY INFORMATION

The components of this product are reported in the following inventories:

DSL: This product contains components that are not listed on the Canadian DSL nor NDSL.

Pest Control Products Act (PCPA) Registration Number: 35378

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product. 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 (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. 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 products label:

PCPA Label Hazard Communications: Read the label and booklet before using. Keep out of reach of children.

This product is toxic to: Non-target terrestrial plants.

16: OTHER INFORMATION

Full text of abbreviations:

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations. DSL - Domestic substances List. WHMIS - Workplace Hazardous Materials Information System.

Preparation Date:

January 22, 2025

Revision Date/Reason:

N/A

Notice:

The enclosed information is supplied as 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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