

**Section 1: IDENTIFICATION**

**Product Name:** Clovitox Plus

**Pest Control Product Number:** 24336

**Product Use:** Phenoxy (Broadleaf) Herbicide.

**Restrictions on Use:** Not available.

**Manufacturer/Supplier:** Interprovincial Cooperative LTD. (IPCO)  
945 Marion Street  
Winnipeg, MB R2J 0K7

**Phone Number:** 204.233.3461

**Emergency Phone:** 204.233.3461

CANUTEC: 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666 on a cellular phone.

**Date of Preparation of SDS:** March 26, 2020

**Section 2: HAZARD(S) IDENTIFICATION****GHS INFORMATION**

**Classification:** Acute Toxicity - Oral, Category 4  
Eye Damage, Category 1

**LABEL ELEMENTS****Hazard****Pictogram(s):****Signal Word:** Danger

**Hazard Statements:** Harmful if swallowed.  
Causes serious eye damage.

**Precautionary Statements**

**Prevention:** Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves, protective clothing and eye protection.

**Response:** IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor.  
Rinse mouth.

**Storage:** Not applicable.

**Disposal:** Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

**Hazards Not Otherwise Classified:** Not applicable.

**Ingredients with Unknown Toxicity:** None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
4-(4-Chloro-2-methylphenoxy)butyric acid	MCPB	94-81-5	34.35 - 35.38
(4-Chloro-2-methylphenoxy)acetic acid	MCPA	94-74-6	2.36 - 2.43

**Section 4: FIRST-AID MEASURES**

- Inhalation:** If inhaled: Call a poison center or doctor if you feel unwell.  
**Acute and delayed symptoms and effects:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
- Eye Contact:** If in eyes: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.  
**Acute and delayed symptoms and effects:** Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.
- Skin Contact:** If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell.  
**Acute and delayed symptoms and effects:** May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
- Ingestion:** If swallowed: Rinse mouth. Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.  
**Acute and delayed symptoms and effects:** Harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

**Section 5: FIRE-FIGHTING MEASURES****FLAMMABILITY AND EXPLOSION INFORMATION**

Not flammable or combustible by OSHA/WHMIS criteria.

**Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact.

**Sensitivity to Static Discharge:** This material is not sensitive to static discharge.

**MEANS OF EXTINCTION**

**Suitable Extinguishing Media:** Small Fire: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

**Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** Oxides of carbon. Hydrochloric acid. Chlorine.

**Protection of Firefighters:** Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures:** Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

**Personal Precautions:** Do not touch or walk through spilled material. Use personal protection recommended in Section 8.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways.

**Methods for Containment:** Stop leak if without risk. Do not flush to sewer or allow to enter waterways.

**Methods for Clean-Up:** Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Other Information:** See Section 13 for disposal considerations.

**Section 7: HANDLING AND STORAGE****Handling:**

Do not swallow. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. See Section 8 for information on Personal Protective Equipment.

**Storage:**

Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines  
Component**

4-(4-Chloro-2-methylphenoxy)butyric acid (MCPB) [CAS No. 94-81-5]

**ACGIH:** No TLV established.

**OSHA:** No PEL established.

(4-Chloro-2-methylphenoxy)acetic acid (MCPA) [CAS No. 94-74-6]

**ACGIH:** No TLV established.

**OSHA:** No PEL established.

**PEL:** Permissible Exposure Limit

**TLV:** Threshold Limit Value

**Engineering Controls:** Not normally required.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**



- Eye/Face Protection:** Wear chemical safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.
- Hand Protection:** Wear protective gloves. Consult manufacturer specifications for further information.
- Skin and Body Protection:** Wear protective clothing.
- Respiratory Protection:** Not required under normal use conditions.
- General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance:** Brown liquid.
- Colour:** Brown.
- Odour:** Fishy.
- Odour Threshold:** Not available.
- Physical State:** Liquid.
- pH:** 11.5 to 12



## SAFETY DATA SHEET

<b>Melting Point / Freezing Point:</b>	-3 °C (26.6 °F)
<b>Initial Boiling Point:</b>	100 °C (212 °F)
<b>Boiling Range:</b>	100 °C (212 °F)
<b>Flash Point:</b>	> 100 °C (212 °F) (TCC)
<b>Evaporation Rate:</b>	Not available.
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Lower Flammability Limit:</b>	Not available.
<b>Upper Flammability Limit:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Relative Density:</b>	1.1633 (Water = 1) at 20 °C (68 °F)
<b>Solubilities:</b>	Miscible in water.
<b>Partition Coefficient: n-Octanol/Water:</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	34.4 cP at 20 °C (68 °F)
<b>Percent Volatile, wt. %:</b>	Not available.
<b>VOC content, wt. %:</b>	Not available.
<b>Density:</b>	Not available.
<b>Coefficient of Water/Oil Distribution:</b>	Not available.

**Section 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	Contact with incompatible materials. Exposure to heat.
<b>Chemical Stability:</b>	Stable under normal storage conditions.
<b>Possibility of Hazardous Reactions:</b>	None known.
<b>Conditions to Avoid:</b>	Contact with incompatible materials. Exposure to heat.
<b>Incompatible Materials:</b>	Acids. Oxidizers.
<b>Hazardous Decomposition Products:</b>	Not available.

**Section 11: TOXICOLOGICAL INFORMATION**

**EFFECTS OF ACUTE EXPOSURE**

**Product Toxicity**

**Oral:** Not available.

**Dermal:** Not available.

**Inhalation:** Not available.

**Component Toxicity**

Component	CAS No.	LD <sub>50</sub> oral	LD <sub>50</sub> dermal	LC <sub>50</sub>
4-(4-Chloro-2-methylphenoxy)butyric acid (MCPB)	94-81-5	680 mg/kg (rat)	Not available.	Not available.
(4-Chloro-2-methylphenoxy)acetic acid (MCPA)	94-74-6	700 mg/kg (rat)	> 2000 mg/kg (rabbit)	1370 mg/m <sup>3</sup> (rat); 4H

**Likely Routes of Exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system.

**Symptoms (including delayed and immediate effects)**

**Inhalation:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Eye:** Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**Skin:** May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Skin Sensitization:** Not available.

**Respiratory Sensitization:** Not available.

**Medical Conditions Aggravated By Exposure:** Not available.

**EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)**

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Carcinogenicity:** Product is not classified as a carcinogen. See Component Carcinogenicity table below for information on individual components.

**Component Carcinogenicity**

Component	ACGIH	IARC	NTP	OSHA	Prop 65
MCPB	Not listed.	Group 2B	Not listed.	OSHA Carcinogen.	Not listed.
MCPA	Not listed.	Group 2B	Not listed.	OSHA Carcinogen.	Not listed.



**Mutagenicity:** MCPB was not mutagenic in series of well documented studies. For MCPA, there have been some positive and some negative studies, but the weight of evidence is that the substance is not mutagenic.

**Reproductive Effects:** Testicular effects have been noted in animal studies on MCPB and MCPA. Lower male fertility has been observed in animal studies on MCPA.

**Developmental Effects**

**Teratogenicity:** Not available.

**Embryotoxicity:** MCPA studies in laboratory animals have shown decreased fetal body weights and delayed development in the offspring at doses toxic to mother animals.

**Toxicologically Synergistic Materials:** Not available.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

**Other Adverse Effects:** Not available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Instructions:** Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

**Section 14: TRANSPORT INFORMATION**

**U.S. Department of Transportation (DOT)**

**Proper Shipping Name:** Not regulated.

**Class:** Not applicable.

**UN Number:** Not applicable.

**Packing Group:** Not applicable.

**Label Code:** Not applicable.

**Canada Transportation of Dangerous Goods (TDG)**

**Proper Shipping Name:** Not regulated.

**Class:** Not applicable.

**UN Number:** Not applicable.

**Packing Group:** Not applicable.

**Label Code:** Not applicable.



**Section 15: REGULATORY INFORMATION**

**Federal Regulations**

**United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**SARA Title III**

Component	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112( r ) TQ (lbs.)
(4-Chloro-2-methylphenoxy)acetic acid (MCPA)	Not listed.	Not listed.	Not listed.	313	Not listed.	Not listed.

**State Regulations**

**Massachusetts**

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

No components are listed.

**New Jersey**

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component	CAS No.	RTK List
(4-Chloro-2-methylphenoxy)acetic acid (MCPA)	94-74-6	Listed.

**Pennsylvania**

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

No components are listed.

**California**

**California Prop 65:** This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Section 16: OTHER INFORMATION**

**Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

**Date of Preparation of SDS:** March 26, 2020

**Version:** 1.0

**GHS SDS Prepared by:** Deerfoot Consulting Inc.  
**Phone:** (403) 720-3700