



## Material Safety Data Sheet

PCP0777

MasterLine Quinclorac

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Id:** PCP0777

**Product Name:** MasterLine Quinclorac

**Synonyms:** Quinclorac.

**Chemical Family:** Quinoline Derivative.

**Application:** Dry Flowable Herbicide.

**Distributed By:**

Univar Canada Ltd.  
9800 Van Horne Way  
Richmond, BC  
V6X 1W5

**Prepared By:** The Environment, Health and Safety Department of Univar Canada Ltd.

**Preparation date of MSDS:** 14/May/2015

**Telephone number of preparer:** 1-866-686-4827

**24-Hour Emergency Telephone Number (CANUTEC):** (613) 996-6666

### 2. HAZARDS IDENTIFICATION

**Potential Acute Health Effects:**

**Eye Contact:** Causes eye irritation.

**Skin Contact:** Causes skin irritation. Potential skin sensitizer.

**Inhalation:** This product is irritating to the respiratory system.

**Ingestion:** May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Quinclorac 84087-01-4	75	Not available.
2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt 36290-04-7	<=10	Not available.
Potassium Chloride 7447-40-7	<=5	Oral LD50 Rat = 2600 mg/kg

**Note:** No additional remark.

## 4. FIRST AID MEASURES

**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. Eye wash fountain should be located in immediate work area.

**Skin Contact:** Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly. Safety shower should be located in immediate work area.

**Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If breathing has stopped, trained personnel should begin artificial respiration (AR) immediately. If breathing is difficult, give oxygen. In situations where administering oxygen is appropriate, first aiders must be trained in the safe use and handling of oxygen. It is preferable to administer oxygen under a doctor's supervision or advice. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Immediate medical assistance is required.

**Ingestion:** Call a poison control center 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 the poison control center or doctor. Never give anything by mouth to an unconscious person.

**Notes to Physician:** Treatment based on sound judgment of physician and individual reactions of patient. First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** Not applicable.

**Flash Point Method:** Not applicable.

**Autoignition Temperature:** Not available.

**Flammable Limits in Air (%):** Not Available.

**Extinguishing Media:** Use DRY chemicals, CO<sub>2</sub>, alcohol foam or water spray.

**Special Exposure Hazards:** Isolate and restrict area access. Use water spray to cool fire-exposed containers and structures. Emits toxic fumes under fire conditions. Do not let contaminated extinguishing media enter the soil, groundwater or surface waters. Contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Hazardous Decomposition/Combustion Materials (under fire conditions):** Oxides of carbon. Oxides of nitrogen. Hydrogen chloride. Hydrocarbons.

**Special Protective Equipment:** Fire fighters should wear full protective clothing, including self-contained breathing equipment.

**NFPA RATINGS FOR THIS PRODUCT ARE:** Not Available.

**HMS RATINGS FOR THIS PRODUCT ARE:** Not Available.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:** Wear appropriate protective equipment.

**Environmental Precautionary Measures:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.

**Procedure for Clean Up:** Isolate hazard area and restrict access. Eliminate all ignition sources. Ventilate area. Dike area to prevent spill from spreading. Stop leak only if safe to do so. Maximize recovery for recycling or reuse. Contain and collect material, place in proper container for reuse or disposal. Clean up remaining materials from spill with suitable absorbent. Flush area with water to remove trace residue. Collect the residues for proper disposal.

## 7. HANDLING AND STORAGE

**Handling:** Use with adequate ventilation. Keep away from sources of ignition. Keep the containers closed when not in use. Protect from heat. Protect from light. Do not expose to air. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, mist, fume or dust. Wash thoroughly after handling. Provide special training to workers handling product. No smoking or open flame in storage, use or handling areas.

## 7. HANDLING AND STORAGE

**Storage:** Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Store in original container. Do not ship or store near food, feed, seed or fertilizers. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination. Freezing will not harm MASTERLINE QUINCLORAC Herbicide. Should product freeze, warm to room temperature prior to use. Do not store above: 40°C (104°F). Changes in the properties of the product may occur if product is stored above indicated temperature for extended periods of time.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls:

Use in a well ventilated area.

**Respiratory Protection:** Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

### Gloves:

Appropriate chemical resistant gloves should be worn.

**Skin Protection:** Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

**Eyes:** Safety glasses with side shields. Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Personal Protection Data:** Ensure that eyewash stations and safety showers are proximal to the work-station location. Users of pesticides should always refer to the product label for personal protective equipment requirements. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Quinclorac	Not available.	Not available.	Not Available.
2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	Not available.	Not available.	Not Available.
Potassium Chloride	Not available.	Not available.	Not Available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid Granules

**Color:** Tan

**Odor:** Mild

**pH** 3.2 (10g/l)

**Specific Gravity:** Not Available.

**Boiling Point:** Not Available.

**Freezing/Melting Point:** Decomposes. 272.4 - 274.9°C/ 522.32 - 526.82 °F(Quinclorac)

**Vapor Pressure:** Negligible (Quinclorac)

**Vapor Density:** Not Available.

**% Volatile by Volume:** Not Available.

**Evaporation Rate:** Not Available.

**Solubility:** Water: 64 mg/l (approx. 20 °C) (Quinclorac)

**VOCs:** Not Available.

**Viscosity:** Not Available.

**Molecular Weight:** 239.04 g/mol (Quinclorac)

**Other:** Not Available.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

## 10. STABILITY AND REACTIVITY

**Conditions to Avoid:** Avoid any source of ignition. Avoid contact with heat, sparks, open flame, and static discharge. Extreme Temperatures. Contamination. Static discharge. Prolonged storage at elevated temperatures Avoid extended storage period. This product may form an explosive mixture if:

1. the dust is suspended in the atmosphere as a dust cloud AND
2. the concentration of the dust is above the lower explosion limit (LEL) AND
3. the limiting oxygen concentration (LOC) is exceeded.

**Materials to Avoid:** None known

**Hazardous Decomposition Products:** Prolonged thermal loading can result in products of degradation being given off., No hazardous decomposition products if stored and handled as prescribed/indicated.

**Additional Information:**

No additional remark.

## 11. TOXICOLOGICAL INFORMATION

### Principle Routes of Exposure

**Ingestion:** May be harmful if swallowed.

**Skin Contact:** Causes skin irritation. Potential skin sensitizer.

**Inhalation:** This product is irritating to the respiratory system.

**Eye Contact:** Causes eye irritation.

**Additional Information:** Irritation / corrosion

Skin:

Species: rabbit

Result: Irritating.

Eye:

Species: rabbit

Result: moderately irritating

Sensitization:

modified Buehler test Species: guinea pig

Result: Non-sensitizing.

### Acute Test of Product:

**Acute Oral LD50:** >2200 mg/kg, Rat (male/female). No mortality was observed.

**Acute Dermal LD50:** > 2,000 mg/kg, Rat. No mortality was observed.

**Acute Inhalation LC50:** > 6.1 mg/l Exposure time: 4 h, Rat. No mortality was observed.

### Carcinogenicity:

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Quinclorac	Not listed.	Not listed.
2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	Not listed.	Not listed.
Potassium Chloride	Not listed.	Not listed.

**Carcinogenicity Comment:** No additional information available.

**Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity:** Information on: Quinclorac Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. From information gathered from these tests there is no indication that the substance is mutagenic.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Quinclorac	Not Available.	Not Available.	Not Available.
2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	Not Available.	Not Available.	Not Available.
Potassium Chloride	750 - 1020 mg/L LC50 (Pimephales promelas) 96 h static 1060 mg/L LC50 (Lepomis macrochirus) 96 h static	Not Available.	2500 mg/L EC50 Desmodesmus subspicatus 72 h

**Other Information:** Fish Information on: Quinclorac Acute: EPA 72-1 static Oncorhynchus mykiss/LC50 (96 h): > 100 mg/l EPA 72-1 static Lepomis macrochirus/LC50 (96 h): > 100 mg/l

Aquatic invertebrates Information on: Quinclorac Acute: OECD Guideline 202, part 1 static Daphnia magna/EC50 (48 h): > 100 mg/l

Aquatic plants Information on: Quinclorac Toxicity to aquatic plants: OECD Guideline 201 static green algae/EC50 (96 h): > 100 mg/l OECD Guideline 201 Algae/EC50 (96 h): > 100 mg/l

Bioaccumulation Information on: Quinclorac

Because of the resultant n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not expected. There is a high probability that the product is not acutely harmful to aquatic organisms. Not readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Waste Method:** Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations. See product label for disposal and recycling instructions.

**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

## 14. TRANSPORT INFORMATION

**DOT (U.S.):**

**DOT Shipping Name:** Not Regulated.

**DOT Hazardous Class:** Not Applicable.

**DOT UN Number:** Not Applicable.

**DOT Packing Group:** Not Applicable.

**DOT Reportable Quantity (lbs):** Not Available.

**Note:** No additional remark.

**Marine Pollutant:** No.

**TDG (Canada):**

**TDG Shipping Name:** Not Regulated.

**Hazard Class:** Not Applicable.

**UN Number:** Not Applicable.

**Packing Group:** Not Applicable.

**Note:** No additional remark.

**Marine Pollutant:** No.

## 15. REGULATORY INFORMATION

**U.S. TSCA Inventory Status:** All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

**Canadian DSL Inventory Status:** All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

### U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Quinclorac	Not Listed.	Not Listed.	Not Listed.
2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	Not Listed.	Not Listed.	Not Listed.
Potassium Chloride	Not Listed.	Not Listed.	Not Listed.

**California Proposition 65:** Not Listed.

**MA Right to Know List:** Not Listed.

**New Jersey Right-to-Know List:** Not Listed.

**Pennsylvania Right to Know List:** Not Listed.

**Additional Notes:** Not Available.

### **WHMIS Hazardous Class:**

WHMIS EXEMPT.

Pest Control Products Act Registration No. 31753.

## 16. OTHER INFORMATION

**Additional Information:**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**Disclaimer:**

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