

## 1. Identification

**Product Name:** MCPE 600

**PCP Registration No.:** 34294

Refer to the approved product label for handling and use instructions.

**Product Type:** Herbicide

**Supplier:** Winfield United Canada, ULC  
101-302 Wellman Lane  
Saskatoon, SK S7T-0J1  
1-888-975-4769

**Telephone Numbers:** 24 Hour Emergency Response Number, Chemtrec, 1-800-424-9300.  
For medical emergencies, ProPharma Group, 1-877-325-1840.  
For product and use information, Winfield United Canada, ULC  
1-888-975-4769.

## 2. Hazard Identification

Classified according to UN GHS Version 5.

**Physical Hazards:**

None

**Health Hazards:**

Acute toxicity (Oral) Category 4

Acute toxicity (Inhalation) Category 4

Acute toxicity (Dermal) Category 5

**Environmental Hazards:**

Hazardous to aquatic environment, acute Category 1

**Signal Word:**

WARNING

**Hazard Statements:**

Harmful if swallowed. Harmful if inhaled. May be harmful in contact with skin. Very toxic to aquatic life.



**Precautionary Statements:**

May be harmful in contact with skin. Avoid contact with skin, eyes and clothing. After use, wash hands and other exposed skin. Wear a long-sleeved shirt, long pants, socks, shoes and

chemical-resistant gloves. Rinse gloves before removal. Remove and wash contaminated clothing before reuse.

Harmful if swallowed. Do not eat, drink or smoke when using this product.

Avoid breathing spray mist. Use only outdoors or in a well-ventilated area.

This product contains an active ingredient and petroleum distillates which are toxic to aquatic organisms.

### 3. Composition / Information on Ingredients

Hazardous Components	CAS No.	Wt. %
MCPA 2-ethylhexyl ester	29450-45-1	89-94
Chemical Synonyms: MCPA 2EH; 2-ethylhexyl 2-(4-chloro-2-methylphenoxy)acetate; 2-ethylhexyl (4-chloro-2-methylphenoxy)acetate		
Distillate petroleum, hydro treated light	64742-47-8	1-3

Other ingredients are considered non-hazardous.

#### Content as Expressed on Product Label

MCPA, present as 2-ethylhexyl ester ... 600 g a.e./L

### 4. First Aid Measures

**If swallowed**, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**If on skin or clothing**, 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.

**If in eyes**, 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.

**If inhaled**, 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.

Take container, label or product name and Pest Control Product Registration Number with you, when seeking medical attention.

DO NOT induce vomiting. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. No specific antidote. Employ supportive care. High concentrations of MCPA may cause severe irritation to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low-blood pressure and unconsciousness. Treat symptomatically.

### 5. Fire-fighting Measures

**Extinguishing Media:** Water fog, alcohol foam, carbon dioxide, dry chemical.

**Special Firefighting Procedures:** Firefighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Minimize and contain water runoff.

**Flash Point:**..... >100 C

**Conditions of Flammability:** ..... Not classed as a combustible liquid, but may burn under fire conditions.

**Hazardous Decomposition Products:**... Under fire conditions, may produce gases such as hydrogen chloride, nitrogen oxides and carbon oxides.

**National Fire Protection Association (NFPA) Hazard Rating:**

**Rating for this product: Health: 2      Flammability: 1      Reactivity: 0**

Hazards Scale: 0 = Minimal 1 = Slight      2 = Moderate 3 = Serious 4 = Severe

<b>6. Accidental Release Measures</b>
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Use safety equipment and procedures appropriate to the size of the spill. Keep unnecessary people away. Avoid runoff to natural waters and sewers. Surround and absorb spills with inert material such as perlite, sawdust, clay granules, vermiculite, sand or dirt. Contain all affected material in a closed, labeled container for proper disposal. Isolate from other waste materials. Clean contaminated area such as hard surfaces with detergent and water, collecting cleaning solution for proper disposal. Large spills to soil or similar surfaces may necessitate removal of top soil.

<b>7. Handling and Storage</b>
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**Handling:** Avoid contact with skin, eyes and clothing. After use, wash hands and other exposed skin. Wear a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

**Storage:** Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. May be stored at any temperature. Shake well before using.

<b>8. Exposure Controls / Personal Protection</b>
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**Engineering Controls:** Use only outdoors or in a well-ventilated area.

**Personal Protective Equipment:** Long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal.

**Exposure Guidelines:**

Component	TWA*	STEL**	Reference/Note
MCPA 2-ethylhexyl ester	N/E	N/E	None found
Distillate petroleum, hydro treated light	1200 mg/m <sup>3</sup>	N/E	Manufacturers recommendation, total hydrocarbon

\*Time-weighted Average, 8-hour unless otherwise noted.

\*\*Short Term Exposure Limit

NE = Not Established

Refer to approved product label for additional exposure control guidance.

## 9. Physical and Chemical Properties

**NOTE:** Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

<b>Appearance (physical state, colour, etc.)</b>	clear amber liquid
<b>Odour</b>	hydrocarbon-like, phenolic
<b>Odour threshold</b>	not available
<b>pH</b>	4.3 (1% w/w dilution)
<b>Melting point / Freezing point</b>	<-25C (MCPA 2EH)
<b>Initial boiling point and boiling range</b>	>220C (MCPA 2EH)
<b>Flash point</b>	>100C
<b>Evaporation rate</b>	not available
<b>Flammability (solids, gases)</b>	not applicable
<b>Upper / Lower flammability or explosive limits</b>	not available
<b>Vapour pressure</b>	5.7 x 10 <sup>-3</sup> mm Hg @ 25C (MCPA 2EH)
<b>Vapour density</b>	not available
<b>Relative density</b>	1.064
<b>Solubility(ies)</b>	product is emulsifiable in water
<b>Partition coefficient: n-octanol/water</b>	product is oil soluble
<b>Autoignition temperature</b>	not available
<b>Decomposition temperature</b>	>220C (MCPA 2EH)
<b>Viscosity</b>	58.4 cP @ 20C

## 10. Stability and Reactivity

**Reactivity:** Not reactive.

**Chemical Stability:** Stable under normal handling and storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Excessive heat. Do not store near heat or flame.

**Incompatible Materials:** Avoid contact with strong acidic, basic or oxidizing agents.

**Hazardous Decomposition Products:** Under fire conditions, may produce gases such as hydrogen chloride, nitrogen oxides and carbon oxides.

## 11. Toxicological Information

**Likely routes of exposure:** Inhalation, ingestion, skin and eye contact.

**Eye contact:** May cause eye irritation, generally of minimal degree. Causes redness and tearing.

**Skin contact:** May be harmful if absorbed through skin. May cause skin irritation, generally of minimal degree.

**Ingestion:** Harmful if swallowed. May cause dizziness, temporary loss of muscle coordination, nausea, vomiting, abdominal pain, decreased blood pressure, fatigue, muscle weakness, muscle spasms.

**Inhalation:** Harmful if inhaled. Vapours could cause coughing, burning, headache, dizziness, respiratory irritation and symptoms similar to those from ingestion.

**Medical Conditions Aggravated by Exposure:** Skin exposure may aggravate preexisting skin conditions. Inhalation of mist may aggravate preexisting respiratory conditions.

**Toxicological Data:**

**Acute oral LD<sub>50</sub> (mg/kg)** ..... 1046 (Rat, combined male & female)

**Acute dermal LD<sub>50</sub> (mg/kg)** ..... >2000 (Rat, male & female)

**Acute inhalation LC<sub>50</sub> (mg/l)** ..... >2.64 (Rat, male & female, 4-hour, nose-only exposure)

**Skin corrosion/irritation** ..... Slightly irritating to skin (Rabbit)

**Serious eye damage/irritation** ..... Mildly irritating to the eye (Rabbit)

**Respiratory or skin sensitization** ... Not considered as a contact dermal sensitizer (Guinea pig)

**Germ cell mutagenicity** ..... There have been some positive and some negative studies, but the weight of evidence is that MCPA is not mutagenic. Products similar to the hydrocarbon component are not considered to be mutagenic.

**Carcinogenicity** ..... The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as possibly carcinogenic to humans (Group 2B), the category for limited evidence for carcinogenicity in humans. MCPA was not carcinogenic to rats or mice in lifetime feeding studies. Products similar to the hydrocarbon component are not considered to be mutagenic and are unlikely to cause tumors.

**Reproductive toxicity** ..... Animal reproduction studies with MCPA indicate there is no increased sensitivity of the young relative to maternal animals.

**12. Ecological Information**

**Ecotoxicity:**

Data are from laboratory studies conducted on MCPA-2-ethylhexyl technical.

**Aquatic Invertebrate:** 48-Hour EC<sub>50</sub> (mg/L) ..... 0.28 (*Daphnia*)

**Fish:** 96-Hour LC<sub>50</sub> (mg/L) ..... 3.2 (Rainbow Trout), > 3.2 (Bluegill Sunfish)

**Algae:** 120-Hour EC<sub>50</sub> (mg ae/L) 0.25 (*Selenastrum*), 1.2 (*Navicula*), 0.085 (*Skeletonema*)

**Birds:** Oral LD<sub>50</sub> (mg ae/kg) ..... >2250 (Bobwhite); Dietary LDD<sub>50</sub> > 3800 (Bobwhite), > 930 (Mallard) (mg ae/kg bw/d)

**Bees:** Oral LD<sub>50</sub> ..... > 250 µg 500 g/L MCPA 2EH formulation/bee

**Bees:** Contact LD<sub>50</sub> ..... > 210 µg 500 g/L MCPA 2EH formulation/bee

**Persistence and Degradability:** MCPA 2EH rapidly hydrolyzes to parent MCPA acid. MCPA is microbially degraded with typical half-life (ester and acid) of 5 to 20 days. Persistent in anaerobic environments.

**Mobility in Soil:** Moderate to high mobility potential, but rapidly degraded.

**Bioaccumulation Potential:** Negligible.

**13. Disposal Considerations**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Disposal should be made in accordance with federal, provincial and local regulations.

Do not reuse container for any purpose. If applicable, return container in accordance with return program. If a recyclable container, dispose of at a container collection site. Contact local distributor, dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site, triple or pressure rinse the empty container adding rinsings to spray tank, and make 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**

##### **Canadian TDG Description (Road & Rail):**

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (MCPA Ester), Class 9, PG III, Marine pollutant.

Section 1.45.1 of the TDG Regulations provides an exemption from documentation and safety marks only for this product and only when transported by a road or railway vehicle.

##### **United States**

##### **DOT:**

**< 119 gallons per complete package**

Non Regulated

**≥ 119 gallons per complete package**

UN 3082, Environmentally hazardous substance, liquid, n.o.s. (MCPA Ester), 9, III, Marine Pollutant

#### **15. Regulatory Information**

*Pest Control Products Act* Registration Number: ..... 34294

OPAC Schedule: .... 3

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



WHMIS exempt.

<b>16. Other Information</b>
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This Safety Data Sheet (SDS) is designed to comply with the Globally Harmonized System (GHS) of classification, and the *Hazardous Products Regulations*.

This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use. The product labeling provides that information specifically for product use as intended.

Company and published information is used in the development of this SDS. The information herein is presented in good faith and believed accurate at the date of publication. However, no warranty, expressed or implied, is given.

Revisions to the last issue: Addition of PMRA guidance info to Section 15.

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