

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL DAY OR NIGHT 1-800-561-8273 or CHEMTREC – DAY OR NIGHT 1 800-424-9300**

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

- 1.1 **PRODUCT IDENTIFIER:**      **PCP NO.: 23181**  
**TRADE NAME:**                    **SIMAZINE 480**
- 1.2 **RECOMMENDED USE:**      WEED CONTROL IN CERTAIN CROPS – HERBICIDE – GROUP 5
- 1.3 **SUPPLIER DETAILS:**  
 LOVELAND PRODUCTS CANADA, INC.  
 789 DONNYBROOK DRIVE • Dorchester, Ontario N0L 1G5
- 1.4 **24 Hour Emergency Phone: (Chemtrec) 1-800-424-9300 (Toll Free) - Additional Emergency Phone: 1-800-561-8273**  
**Loveland Technical Service: 1-800-326-4678**

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to 29 CFR 1910.1200**

Carcinogenicity	Category 2	H351
Eye Damage/Eye Irritation	Category 2A	H319

**2.2 Label elements**



Signal word:                    **WARNING**  
 Hazard Statement:         **H351 – Suspected of causing cancer.**  
                                       **H319 – Causes serious eye irritation.**

Precautionary Statement:                    **P201 – Obtain special instructions before use.**  
 (Prevention):                    **P202 – Do not handle until all safety precautions have been read and understood.**  
    **P280 – Wear protective gloves/protective clothing/eye protection/face protection.**  
    **P264 – Wash hands and face thoroughly after handling.**  
    **P270 – Do not eat, drink or smoke when using this product.**

Precautionary Statement:                    **P308+P313 – If exposed or concerned: Get medical advice/attention.**  
 (Response):                    **P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.**  
    **P337+P313 – If eye irritation persists: Get medical advice/attention.**

Precautionary Statement:                    **P405 – Store locked up.**  
 (Storage):

Precautionary Statement:                    **P501 – Dispose of contents/container to an approved waste disposal plant.**  
 (Disposal):

**2.3 Other hazards**

None known



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### 3. COMPOSITION, INFORMATION ON INGREDIENTS

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#### 3.1 Substances

#### 3.2 Mixtures

##### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Concentration
Simazine	122-34-9	By weight 474 g/L
Related compounds		6 g/L

Ingredients not precisely identified are proprietary or non-hazardous.

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### 4. FIRST AID MEASURES

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#### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

- If swallowed:** 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 the poison control centre or doctor. 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 mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.

#### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Causes serious eye irritation.

#### 4.3 Immediate Medical Attention and Special Treatment

Treatment: **NOTES TO PHYSICIAN:** No specific antidote if ingested. Treat symptomatically.  
**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273**  
Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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### 5. FIRE FIGHTING MEASURES

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#### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO<sub>2</sub>), foam.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

#### 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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**6. ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Personal Precautions: Avoid inhalation of dusts and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. Remove all sources of ignition.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Environmental Precautions: This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP**

Methods for Clean-Up: Contain the spill at its source. Contain the spill to prevent spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in section 8. Cover entire spill with absorbing material and place into a compatible disposal container. Scrub the area with a hard water detergent. Pick up wash liquid with additional absorbent and place into a compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

**7. HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING:**

Advice on Safe Handling: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**7.2 CONDITIONS FOR SAFE STORAGE:**

Requirements for Storage Areas and Containers: Store in a safe manner. Store in original container only. Store in a cool, dry place. Store locked up. Do not contaminate water, food or feed by storage or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS:**

**OCCUPATIONAL EXPOSURE LIMITS**

**U.S. Workplace Exposure Level (ACGIH) TLVs®**

Components	Type	Value
Simazine	TWA	0.5 mg/m <sup>3</sup> (Measured as Inhalable fraction of the aerosol)
Ethylene Glycol	TWA	100 mg/m <sup>3</sup> (Ceiling – Aerosol)

**U.S. Workplace Exposure Level (OSHA) PELs**

Components	Type	Value
Glycerin	TWA	15 mg/m <sup>3</sup> (Total dust), Mist 5 mg/m <sup>3</sup> (Respirable fraction), Mist

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Specimen
No listings		

**8.2 EXPOSURE CONTROLS:****Engineering Measures**

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

**Individual Protection Measures:**

Eye / Face Protection: Goggles or shielded safety glasses are recommended.  
Skin Protection: Coveralls over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant apron. Chemical-resistant footwear and socks.  
Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment approved by MSHA/NIOSH. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 APPEARANCE:** Liquid  
**ODOUR:** Odourless.  
**ODOUR THRESHOLD:** No data available.  
**COLOUR:** Light tan.  
**pH:** 6 – 8 (10% solution)  
**MELTING POINT / FREEZING POINT:** Not applicable.  
**BOILING POINT:** 207 – 225 °F / 97 – 107 °C.  
**FLASH POINT:** Not applicable.  
**FLAMMABILITY (solid, gas):** Not applicable.  
**UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:** No data available.  
**VAPOR PRESSURE:**  $2.2 \times 10^{-2}$  @ 25°C (based on Simazine).  
**SOLUBILITY:** Soluble / 6.2 mg/l @ 72°F / 22°C.  
**PARTITION CO-EFFICIENT, n-OCTANOL / WATER:** No data available.  
**AUTO-IGNITION TEMPERATURE:** No data available.  
**DECOMPOSITION TEMPERATURE:** No data available.  
**VISCOSITY: (kinematic):** No data available  
**SPECIFIC GRAVITY (Water = 1):** 1.143 g/ml  
**DENSITY:** 1.14 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample.  
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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**10. STABILITY AND REACTIVITY**

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**10.1 REACTIVITY**

Stable

**10.2 CHEMICAL STABILITY**

Stable under normal temperature conditions

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS**

No data available. Will not polymerize.

**10.4 CONDITIONS TO AVOID**

None known.

**10.5 INCOMPATIBLE MATERIALS**

None known.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS**

None known.



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## 11 TOXICOLOGICAL INFORMATION

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### 11.3 LIKELY ROUTES OF EXPOSURE

Eyes, Dermal, inhalation, ingestion.

LC<sub>50</sub> (rat): > 2.5 mg/L (4H)

LD<sub>50</sub> Oral (rat): > 5,000 mg/kg.

LD<sub>50</sub> Dermal (rabbit): > 2,000 mg/kg

Acute Toxicity Estimates: No data available.

Eye Irritation (rabbit): Serious eye irritant.

Skin Irritation (rabbit): Slightly irritating.

Inhalation: Do data available.

Ingestion: Harmful if swallowed.

Specific Target Organ Toxicity: Mammary gland. Blood. Kidney. CNS. Skin.

Aspiration: No data available.

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: Possible carcinogenicity. IARC-3 (Unclassifiable as to Carcinogenicity in Humans)

Germ Cell Mutagenicity: No data available.

Interactive Effects: None known.

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## 12 ECOLOGICAL INFORMATION

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### 12.3 ECOTOXICITY

The pesticide is toxic to aquatic invertebrates.

Simazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Simazine has been found in ground water. Users are advised not to apply Simazine to sand or loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable; i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water

#### Ecotoxicological Data

	Species	Test Results
Simazine	Rainbow trout	> 10 ppm – 96-hour LC <sub>50</sub>
	Daphnia magna	1.1 ppm – 48-hour EC <sub>50</sub>

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

### 12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available.

### 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Low potential for accumulation.

### 12.4 MOBILITY IN SOIL

Moderate mobility.

### 12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

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## 13 DISPOSAL CONSIDERATIONS

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### 13.1 WASTE TREATMENT METHODS

Do not reuse containers for any purpose. Refillable Container: For disposal, the container may be returned to the point of purchase (dealer/distributor). It must be refilled by the dealer/distributor with the same product. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray 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. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.



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**14 TRANSPORT INFORMATION**

**14.3 LAND TRANSPORT**

**TDG Shipping Description:** NOT REGULATED (PACKAGES WILL BEAR USDOT MARKINGS AND LABELS).

**U.S. Surface Freight Classification:** COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)

**15 REGULATORY INFORMATION**

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS**

**NFPA & HMIS Hazard Ratings:**

NFPA		HMIS	
1 Health	0 Least	1 Health	
1 Flammability	1 Slight	1 Flammability	
0 Instability	2 Moderate	0 Reactivity	
	3 High	F PPE	
	4 Severe		

**SARA Hazard Notification/Reporting**

<b>SARA Title III Hazard Category:</b>	Immediate <u>Y</u>	Fire <u>N</u>	Sudden Release of Pressure <u>N</u>
	Delayed <u>N</u>	Reactive <u>N</u>	

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed.

**SARA, Title III, Section 313:** Simazine (CAS: 122-34-9)

**RCRA Waste Code:** Not listed

**CA Proposition 65:** Not applicable.

**16 OTHER INFORMATION**

**SDS STATUS:** All sections revised.

**PREPARED BY:** Product Stewardship and Regulatory Affairs

**REVIEWED BY:** Safety Health and Environment

**PEST CONTROL PRODUCTS ACT REG. NO.:** 23181

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