

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

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

- 1.1 **PRODUCT IDENTIFIER:** EPA REGISTRATION NO. 66222-23-34704  
TRADE NAME: PRAMITOL® 5PS PELLETTED HERBICIDE
- 1.2 **RECOMMENDED USE:** FOR TOTAL VEGETATION CONTROL OF WEEDS IN NON-CROP AREAS
- 1.3 **SUPPLIER DETAILS:**  
LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286
- 1.4 **24 Hour Emergency Phone:** 1-800-424-9300 - **Medical Emergencies:** 1-866-944-8565 – **Product Information:** 1-888-574-2878 (LPI-CUST)  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to 29 CFR 1910.1200**

|                             |             |      |
|-----------------------------|-------------|------|
| Acute toxicity - Oral       | Category 4  | H302 |
| Acute Toxicity – Inhalation | Category 4  | H332 |
| Acute Toxicity - Dermal     | Category 4  | H312 |
| Eye Damage/Irritation       | Category 2A | H319 |

**Hazards Not Otherwise Classified (HNOC)**

Toxic to aquatic life with long lasting effects.

**2.2 Label elements**



Signal word: WARNING  
Hazard Statement: H302 – Harmful if swallowed.  
H332 – Harmful if inhaled.  
H312 – Harmful in contact with skin.  
H319 – Causes serious eye irritation.

Precautionary Statement: (Prevention): P264 – Wash face, hands and any exposed skin thoroughly after handling.  
P270 – Do not eat, drink or smoke when using this product.  
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271 – Use only outdoors or in a well-ventilated area.  
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: (Response): P301+P312 – IF SWALLOWED: Call a poison center/doctor/physician if you feel unwell.  
P330 – Rinse mouth.  
P304+P340 – IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P302+P352 – IF ON SKIN: Wash with plenty of soap and water.  
P312 – Call a poison center/doctor/physician if you feel unwell.  
P321 – Specific treatment (see NOTE TO PHYSICIAN on the product label).  
P362 – Take off contaminated clothing and wash it before reuse.  
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: (Disposal): P501 – Dispose of contents/container to an approved waste disposal facility. Offer container for recycling.



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2.3 Other hazards  
None known

### 3. COMPOSITION, INFORMATION ON INGREDIENTS

#### 3.1 Substances

#### 3.2 Mixtures

##### Classification according to 29 CFR 1910.1200

| Chemical Name:       | CAS No.     | Concentration [%] |
|----------------------|-------------|-------------------|
| Prometon             | 1610-18-0   | 4.60 – 5.33       |
| Sodium tetraborate   | 1330-43-4   | 38.80 – 44.20     |
| Proprietary Alkaline | Proprietary | < 25.00           |

\*\*If Chemical Name/CAS No. is "proprietary" and/or weight-% is listed as a range, the specific chemical identity and/or percentage of the composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

- If swallowed:** 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. Do not give anything by mouth to an unconscious person.
- 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 center or doctor for treatment advice.
- If on skin or clothing:** 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.
- 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 center or doctor for further treatment advice.

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

Symptoms: If swallowed, mucous membranes may be damaged, resulting in breathing difficulty, abdominal pain. Nausea, vomiting, gastritis, weakness, or diarrhea. Ingestion of a large amount can lead to cyanosis and hematuria (blood in the urine).

#### 4.3 Immediate Medical Attention and Special Treatment

Treatment: **NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Treat for circulatory shock, respiratory depression, and convulsions, if needed.  
**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565**  
Have the product container or label with you when calling a poison control center or going for treatment.

### 5. FIRE FIGHTING MEASURES

#### 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: Corrosive material.

#### 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: Wear suitable protective clothing as described in Section 8 of this safety data sheet. Isolate hazard area. Keep unnecessary and unprotected personnel from entering area.

### 6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and groundwater. See also Section 12: Ecological Information and Section 13: Disposal Considerations.

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

Methods for Containment: Prevent further leakage or spillage if safe to do so.  
Methods for Clean-Up: Avoid creating dust. Sweep up dry spills and place in a container for recovery or disposal. Wash spill area with a strong detergent water solution; rinse with water, but minimize water use during clean-up. Do not flush to sewer. Absorb rinsate with appropriate absorbent and transfer material to a properly labeled container for disposal.

## 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Follow all product label instructions. Use only as directed. Avoid generation of dust. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Do not breathe dust.

### 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Keep container tightly closed and store in a cool, dry, well-ventilated place. Store locked up. Keep out of reach of children. Store at ambient conditions. Do not store near combustible materials. Keep away from heat. Store away from incompatible materials. Do not reuse container. 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                                    |
|-----------------------------|--------------|--|
| Borate compounds, inorganic | TWA          | 2 mg/m <sup>3</sup> (Inhalable fraction) |
|                             | STEL/CEIL(C) | 6 mg/m <sup>3</sup> (Inhalable fraction) |

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

| Components  | Type | Value |
|-------------|------|-------|
| No listings |      |       |

#### Biological limit values

##### ACGIH Biological Exposure Indices

| Components  | Value | Specimen |
|-------------|-------|----------|
| No listings |       |          |



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### 8.2 EXPOSURE CONTROLS:

#### Engineering Measures

Please refer to the product label. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Long-sleeved shirt and long pants. Chemical-resistant gloves, such as viton, polyethylene or polyvinylchloride. Shoes plus socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dusts, use suitable respiratory equipment approved by MSHA/NIOSH. Wear respiratory protection during operations where spraying or dusting 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.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|   |   |
|---|---|
| 9.1 APPEARANCE :                                | Solid pellet.                                       |
| ODOR:   | Odorless.   |
| ODOR THRESHOLD:                                 | No data available.                                  |
| COLOR:  | White.  |
| pH:   | 10 (1% solution) @ 25 °C                            |
| MELTING POINT / FREEZING POINT:                 | 89 – 91 °C / 192 – 195 °F                           |
| BOILING POINT:                                  | No data available.                                  |
| FLASH POINT:                                    | Not applicable.                                     |
| FLAMMABILITY (solid, gas):                      | Not applicable.                                     |
| UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: | No data available.                                  |
| VAPOR PRESSURE:                                 | 3.10E-06 mbar @ 20 °C (based on Prometon).          |
| SOLUBILITY:                                     | 0.7 g/L @ 20 °C (based on Prometon).                |
| 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):                   | 0.906 g/ml  |
| BULK DENSITY:                                   | 56.60 lbs/ft <sup>3</sup>   906.6 kg/m <sup>3</sup> |

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

Store away from incompatible materials. Do not store near combustible materials.

### 10.5 INCOMPATIBLE MATERIALS

Acids, organic compounds, phosphorous, sulfur, sulfides, ammonium compounds, and powdered metals.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Reaction of sodium chlorate with acids may release chlorine gas and oxides of chlorine vapors which may ignite or explode spontaneously. This formulation is neutralized.



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## 11 TOXICOLOGICAL INFORMATION

### 11.3 LIKELY ROUTES OF EXPOSURE

**LC<sub>50</sub> (rat):** > 3.727 mg/L (4 HR).

**LD<sub>50</sub> Oral (rat):** 3,396 mg/kg.

**LD<sub>50</sub> Dermal (rabbit):** > 2020 mg/kg.

**Acute Toxicity Estimates:** No data available.

**Skin Irritation:** Harmful in contact with skin.

**Eye Irritation:** Causes serious eye irritation.

**Inhalation:** Harmful if inhaled.

**Ingestion:** Harmful if swallowed.

**Specific Target Organ Toxicity:** No data available.

**Aspiration:** No data available.

**Skin Sensitization (guinea pig):** Not a sensitizer

**Carcinogenicity:** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Germ Cell Mutagenicity:** None known.

**Interactive Effects:** None known

## 12 ECOLOGICAL INFORMATION

### 12.3 ECOTOXICITY

Toxic to aquatic life with long lasting effects. Do not apply directly to water, 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 wash waters..

#### Ecotoxicological Data

|                      | <b>Species</b>      | <b>Test Results</b>                           |
|----------------------|---------------------|---|
| Sodium tetraborate   | Limanda limanda     | 340 mg/L – 96-hour LC <sub>50</sub>           |
|                      | Daphnia magna       | 1085 - 1402 mg/L – 48-hour EC <sub>50</sub>   |
| Proprietary Alkaline | Oncorhynchus mykiss | 45.4 mg/L – 96-hour LC <sub>50</sub> (Static) |

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: No data available.

### 12.4 MOBILITY IN SOIL

No data available.

### 12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

## 13 DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

Wastes may be disposed of on site or at an approved waste disposal facility. Nonrefillable container. Do not reuse or refill the container. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <http://www.acrcycle.org/>. Do not contaminate water, food or feed by storage or disposal.

## 14 TRANSPORT INFORMATION

### 14.3 LAND TRANSPORT

**DOT Shipping Description:** NOT REGULATED BY USDOT

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



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## 15 REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

|  |                |            |                |
|--|----------------|------------|----------------|
| <b>NFPA &amp; HMIS Hazard Ratings:</b> | NFPA           |            | HMIS           |
|  | 2 Health       | 0 Least    | 2 Health       |
|  | 0 Flammability | 1 Slight   | 0 Flammability |
|  | 0 Instability  | 2 Moderate | 0 Reactivity   |
|  |                | 3 High     | H 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>Y</u> | Reactive | <u>N</u> |                            |          |

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

**SARA, Title III, Section 313:** Not listed.

**RCRA Waste Code:** Not listed.

**CA Proposition 65:** Not listed.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### WARNING

- Causes substantial but temporary eye injury.
- Harmful if swallowed, inhaled, or absorbed through skin.
- Do not get in eyes or on clothing.
- Avoid contact with skin.
- Avoid breathing dust.
- Wear protective eyewear (goggles, face shield, or safety glasses).
- Wash thoroughly with soap and water after handling.
- Remove and wash contaminated clothing after use.

## 16 OTHER INFORMATION

**SDS STATUS:** Sections 2 and 11 revised.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

**EPA REG. NO.:** 66222-23-34704

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