

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. 66222-22-34704
TRADE NAME: PRAMITOL® 25E HERBICIDE
- 1.2 **RECOMMENDED USE:** GROUP 5 HERBICIDE - 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
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 – Inhalation (Dusts/Mists)	Category 4	H332
Skin Corrosion/Irritation	Category 2	H315
Eye Damage/Irritation	Category 1	H318
Germ Cell Mutagenicity	Category 1B	H340
Aspiration Hazard	Category 1	H304
Flammable liquids	Category 3	H226

Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin

2.2 Label elements



Signal word: DANGER
 Hazard Statement: H332 – Harmful if inhaled.
 H315 – Causes skin irritation.
 H318 – Causes serious eye damage.
 H340 – May cause genetic defects.
 H304 – May be fatal if swallowed and enters airways.
 H226 – Flammable liquid and vapor.

Precautionary Statement: (Prevention): P201 – Obtain special instructions before use.
 P202 – Do not handle until all safety precautions have been read and understood.
 P281 – Use personal protective equipment as required.
 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.
 P210 – Keep away from heat/sparks/open flames/hot surfaces – No smoking.
 P233 – Keep container tightly closed.
 P240 – Ground/bond container and receiving equipment.
 P241 – Use explosion-proof equipment.
 P242 – Use only non-sparking tools.
 P243 – Take precautionary measures against static discharge.



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Precautionary
Statement:
(Response):

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 – Call a poison center or doctor/physician if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P321 – Specific treatment (see: Note to Physician on the product label).
P332+P313: If skin irritation occurs: Get medical advice/attention.
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.
P308+P313 – If exposed or concerned: Get medical advice/attention.
P303+P361+P353: (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 – Wash contaminated clothing before reuse.
P301+P310: IF SWALLOWED: Immediately call a poison center/doctor/physician.
P331 – Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 – In case of fire: Use CO₂, dry chemical, or foam to extinguish.

Precautionary
Statement:
(Storage):

P405 – Store locked up.
P403+P235 – Store in a well-ventilated place. Keep cool.

Precautionary
Statement:
(Disposal):

P501 – Dispose of contents/container in accordance with local, state, and federal requirements.

Environmental
Hazards:

H411 – Toxic to aquatic life with long lasting effects.

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 [%]
2-Methoxy-4,6-bis(isopropylamino)-1,3,5 triazine	1610-18-0	24.20 – 25.80
Heavy Aromatic Naphtha	64742-95-6	48.20 – 52.20
n-Butyl Alcohol	71-36-3	9.50 – 10.50
Ethylene glycol monophenyl ether	122-99-6	8.50 – 9.50

**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.



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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: Causes skin irritation. Causes serious eye damage. May be fatal if swallowed and enters airways. Ingestion with aspiration may cause headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions, and loss of consciousness. May be harmful in contact with skin. May aggravate pre-existing conditions. Harmful if inhaled. Vapors may cause irritation to nose, throat, and respiratory tract. High vapor concentrations may cause central nervous system depression which can lead to dizziness, weakness and headache. Inhalation may aggravate respiratory problems.

4.3 Immediate Medical Attention and Special Treatment

Treatment: **NOTES TO PHYSICIAN:** Contains petroleum distillate; vomiting may cause aspiration pneumonia. 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 doctor 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 (CO₂), foam.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: Flammable liquid and vapor.

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.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors and spray mist 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 may adversely affect non-target plants. 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. This chemical has properties and characteristics associated with chemical detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of dicking water or groundwater.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush contaminated area thoroughly with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to Remove residual contamination.
Never return spills to original containers for re-use.



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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. Avoid breathing vapors or mists. Use only outdoors or in a well-ventilated area. Follow all product label instructions. Use only as directed. Wash face, hands, and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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:

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. Store away from food stuffs. Store at temperatures above 32 °F. 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
n-Butyl alcohol	TLV	20 ppm / 61 mg/m ³

U.S. Workplace Exposure Level (OSHA) PELs

Components	Type	Value
n-Butyl alcohol	TLV	100 ppm / 300 mg/m ³

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. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS OF END USE PRODUCTS CONTAINING THIS MATERIAL, CONSULT THE SDS OR PRODUCT LABEL FOR THE END USE PRODUCT.

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 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE :	Liquid
ODOR:	Aromatic, solvent-like.
ODOR THRESHOLD:	No data available.
COLOR:	Yellow to amber.
pH:	6.6 (1% solution)
MELTING POINT / FREEZING POINT:	No data available
BOILING POINT:	248 – 266 °F / 120 – 130 °C)
FLASH POINT:	98 °F / 36 °C.
FLAMMABILITY (solid, gas):	Not applicable.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	Upper: 4.9% +/- 0.25% by volume @ 60°C / Lower 1.3%.
VAPOR PRESSURE:	3.10E-06 mbar @ 20 °C (based on Prometon).
SOLUBILITY:	Miscible.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER:	No data available.
AUTO-IGNITION TEMPERATURE:	340 °C / 644 °F.
DECOMPOSITION TEMPERATURE:	No data available.
VISCOSITY: (kinematic):	No data available
SPECIFIC GRAVITY (Water = 1):	0.93 g/ml
DENSITY:	7.80 lbs./gal / 0.93 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.

10. STABILITY AND REACTIVITY

- 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**
Strong acids.
- 10.5 INCOMPATIBLE MATERIALS**
Strong acids.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS**
Oxides of carbon and/or other asphyxiants may be formed from incomplete combustion.

11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

LC₅₀ (rat): 36g/m³ (4 HR) (Prometon); >5.2 mg/L (Heavy Aromatic Naphtha); >17.7 mg/L (n-Butyl alcohol)
LD₅₀ Oral (rat): 503 mg/kg (Prometon); 8,400 mg/kg (Heavy Aromatic Naphtha); 790 mg/kg (n-Butyl alcohol); 1,260 mg/kg (Ethylene glycol monophenyl ether)
LD₅₀ Dermal (rabbit): > 2,500 mg/kg (Prometon); > 2,000 mg/kg (Heavy Aromatic Naphtha); 3,400 mg/kg (n-Butyl alcohol); 5 mL/kg (Ethylene glycol monophenyl ether)

Acute Toxicity Estimates: No data available.

Skin Irritation: May be harmful in contact with skin. Causes skin irritation.

Eye Irritation: Causes serious eye damage.

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed.

Specific Target Organ Toxicity: No data available.

Aspiration: May be fatal if swallowed and enters airways.

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: Based on information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Germ Cell Mutagenicity: May cause genetic defects.

Interactive Effects: None known.



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12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

Toxic to aquatic life with long lasting effects. The pesticide is toxic to fish and aquatic invertebrates.

Ecotoxicological Data

	Species	Test Results
Heavy aromatic naphtha	Oncorhynchus mykiss	9.22 mg/L – 96-hour LC ₅₀
n-Butyl alcohol	Daphnia magna	6.14 mg/L – 48-hour EC ₅₀
	Pimephales promelas	1,730 – 1,910 mg/L – 96-hour LC ₅₀
Ethylene glycol monophenyl ether	Daphnia magna	1,383 mg/L – 48-hour EC ₅₀
	Pimephales promelas	337 – 352 mg/L – 96-hour LC ₅₀
	Daphnia magna	500 mg/L – 48-hour EC ₅₀

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

n-Butyl alcohol: Partition Coefficient: 0.785

Ethylene glycol monophenyl ether: Partition Coefficient: 1.13.

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. Triple rinse (or equivalent), adding rinse water to spray tank. 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.acrecycle.org/>. Do not contaminate water, food or feed by storage or disposal.

14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT

DOT Shipping Description: **2X2 ½ GALLON:** NA1993, COMPOUND, WEED KILLING, LIQUID, 3, III (XYLENE) ERG GUIDE 128.

DOT Shipping Description: **4X1 GALLON:** NA1993, COMPOUND, WEED KILLING, LIQUID, 3, III (XYLENE) LTD QTY ERG GUIDE 128

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

2	Health	0	Least
3	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe

HMIS

2	Health
3	Flammability
0	Reactivity
H	PPE



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SARA Hazard Notification/Reporting

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

Reportable Quantity (RQ) under U.S. CERCLA: n-Butyl Alcohol (CAS: 71-36-3) 5,000 pounds.
 SARA, Title III, Section 313: n-Butyl Alcohol (CAS: 71-36-3)
 RCRA Waste Code: U031
 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:

CAUTION

Harmful if swallowed or absorbed through skin.
 Causes moderate eye irritation.
 Avoid contact with skin, eyes, or clothing.
 Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
 Remove contaminated clothing and wash before reuse.

16 OTHER INFORMATION

SDS STATUS: Section 2 revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

EPA REG. NO.: 66222-22-34704

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