

**MATERIAL SAFETY DATA SHEET**  
**Pramitol® 25E Herbicide**, EPA Reg. No. 66222-22  
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**1. IDENTIFICATION**

Product name: **Pramitol 25E Herbicide**  
 Chemical name of active ingredient(s): Prometon (25%):2,4-bis(isopropylamino)-6-methoxy-s-triazine (CAS #1610-18-0)  
 Chemical Class: Triazine Herbicide  
 Manufacturer/Registrant: Makhteshim-Agan of North America  
 551 Fifth Avenue, Suite 1100  
 New York, NY 10176  
 Phone: 212-661-9800  
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053  
 For medical emergencies and health and safety inquiries, contact Product Safety Resources: Phone: 1-877-250-9291

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

MATERIAL	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA Carcinogen
Surfactants	N/E	N/E	N/E	No
Petroleum Solvents	N/E	N/E	25 ppm*	No
Xylene	100 ppm	100 ppm TWA 150 ppm STEL	N/E	IARC 3
O-Xylene	100 ppm	100 ppm TWA 150 ppm STEL	N/E	No
Ethyl Benzene	100 ppm	100 ppm TWA 125 ppm STEL	N/E	IARC 2
1,2,4-Trimethylbenzene	N/E	25 ppm TWA	N/E	No
N-Butanol	100 ppm	N/E	50 ppm ACGIH Ceiling	No
Ethylene Glycol Mono Ether	N/E	N/E	39.4 ppm ACGIH Ceiling	No
Prometon (25%)	N/E	N/E	N/E	No

N/E=Not Established  
 \*recommended by manufacturer

**3. HAZARDS IDENTIFICATIONS**

**NOTES TO PHYSICIAN**

- There is no specific antidote if product is ingested.
- Induction of emesis is not recommended due to the large amount of petroleum solvent in this product, which could cause chemical pneumonitis if aspirated. If ingested, lavage stomach, taking care to avoid aspiration of stomach contents into lungs.
- Check for possible mucosal damage before beginning gastric lavage.
- If inhaled, observe for delayed onset of pulmonary edema.
- Treat central nervous system effects symptomatically.
- Contact with eyes may require specialized ophthalmologic attention.
- An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant.

**SYMPTOMS OF ACUTE EXPOSURE**

Exposure may cause substantial but temporary eye injury and severe skin irritation. If swallowed, abdominal pain, nausea, vomiting, gastritis, weakness, headache, or diarrhea can occur. Prolonged inhalation exposure may cause respiratory tract irritation and central nervous system depression,

resulting in headache, dizziness, blurred vision or nausea. The petroleum solvent in this product can cause a chemical pneumonitis if aspirated.

**HAZARDOUS DECOMPOSITION PRODUCTS**

None known.

**PHYSICAL PROPERTIES**

Appearance: Yellow to amber liquid

Odor: Aromatic solvent odor

**UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS**

This product is a flammable material and forms flammable mixtures above 77°F. Thermal decomposition products may include, but are not limited to, carbon monoxide or carbon dioxide.

**4. FIRST AID**

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

**Have the product container or label with you when calling a poison control center or doctor or going for treatment.**

<p><b>NOTES TO PHYSICIAN:</b></p> <ul style="list-style-type: none"> <li>• Contains petroleum distillate; vomiting may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage. Check for possible mucosal damage before beginning gastric lavage. Treat for circulatory shock, respiratory depression, and convulsions, if needed.</li> <li>• There is no specific antidote if product is ingested.</li> <li>• Induction of emesis is not recommended due to the large amount of petroleum solvent in this product, which could cause chemical pneumonitis if aspirated. If ingested, lavage stomach taking care to avoid aspiration of stomach contents into lungs.</li> <li>• If inhaled, observe for delayed onset of pulmonary edema.</li> <li>• Treat central nervous system effects symptomatically.</li> <li>• Contact with eyes may require specialized ophthalmologic attention.</li> <li>• An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant.</li> </ul>
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**MEDICAL CONDITION(S) LIKELY TO BE AGGRAVATED BY EXPOSURE**

Individuals with chronic respiratory disorders or pre-existing dermatitis should use extra care when handling this product.

**5. FIRE FIGHTING MEASURES**

**FLASH POINT (Test Method):** 98°F (TCC)  
**FLAMMABLE LIMITS (%in Air):** LFL: 1.3%, UFL: 4.9%±0.25% by volume @ 60°C  
**AUTOIGNITION TEMPERATURE:** 340°C  
**FLAMMABILITY:** Not Applicable  
**EXTINGUISHING MEDIA:** Use dry chemical, foam, or CO<sub>2</sub>.

**FIRE & EXPLOSION HAZARDS:** This product is a flammable material and forms flammable mixtures above 77°F. Thermal decomposition products may include, but are not limited to, carbon monoxide or carbon dioxide.  
**FIRE-FIGHTING EQUIPMENT:** Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated.

#### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Wear chemical goggles or a full-face shield, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved full-face chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus (SCBA). For small spills, cover with an absorbent material such as pet litter. Sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

#### 7. HANDLING AND STORAGE

Store material in a well-ventilated, secure area out of the reach of children and domestic animals. Store above 32°F. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**  
**INGESTION:** Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.  
**EYE PROTECTION:** To avoid eye contact, wear chemical goggles or full-face shield.  
**SKIN PROTECTION:** To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Items, which cannot be decontaminated, such as shoes, belts, and watchbands, should be removed, destroyed, and disposed of.  
**RESPIRATORY PROTECTION:** To avoid breathing mist or spray, wear a NIOSH-approved full-face chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a supplied air respirator.  
**APPLICATORS AND ALL OTHER HANDLERS:** Please refer to the product label for personal protective clothing and equipment.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** 120-130°C  
**MELTING POINT:** Not Applicable  
**VAPOR PRESSURE:** Prometon: 3.10E-06 mbar @ 20°C  
**SOLUBILITY IN WATER:** Prometon: 0.7 g/L @ 22°C  
**SPECIFIC GRAVITY:** 7.80 lbs./gallon  
**pH:** 7-8  
**APPEARANCE:** Yellow to amber liquid  
**ODOR:** Aromatic solvent odor

#### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** Strong Acids  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None Known  
**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY/IRRITATION STUDIES

Ingestion:

Slightly toxic  
Oral LD<sub>50</sub> (Rat) 2,100 mg/kg body weight

Dermal:

Slightly toxic  
Dermal LC<sub>50</sub> (Rabbit) 2,000-2,500 mg/kg body weight

Inhalation:

Slightly toxic  
Dermal LC<sub>50</sub> (Rat) >2.5 mg/l air-4 hours

Eye Contact: severely irritating (Rabbit)

Skin Contact: severely irritating (Rabbit)

Skin Sensitization: Not Available

### MUTAGENIC POTENTIAL

Prometon: None observed

### REPRODUCTIVE HAZARD POTENTIAL

Prometon: None observed

### CHRONIC/SUBCHRONIC TOXICITY STUDIES

Prometon: Liver effects (mice)

### CARCINOGENIC POTENTIAL

Prometon: None observed

### OTHER TOXICITY INFORMATION

Not Available

### TOXICITY OF OTHER COMPONENTS

Ethylene Glycol Mono Phenyl Ether:

Exposure will result in severe eye irritation and moderate corneal injury. Liver, kidney, thyroid, and blood effects have been observed in animal studies.

N- Butanol:

Prolonged exposure to N-Butanol may result in drying and cracking of skin from a defatting action. There is evidence that long-term repeated exposure to vapor concentrations greater than 50 ppm may result in some loss of hearing. N-Butanol vapor can cause specific injury to the cornea. Irritation of the skin and respiratory tract may occur with brief exposures. Causes severe irritation to the eyes with lacrimation. Inhalation of N-Butanol may result in loss of consciousness, headache, dizziness, nausea, drowsiness and vomiting.

Petroleum Solvent:

The supplier reports that inhalation of high vapor concentrations (over 1,000 ppm) may cause central nervous system effects such as headache, dizziness, anesthesia and respiratory tract irritation.

Surfactants:

Small amounts of several surfactants have been reported by the manufacturers to cause skin irritation upon prolonged or repeated contact.

### TARGET ORGANS

#### Active Ingredients:

Prometon: Liver

#### Inert Ingredients:

Ethylene Glycol Mono Phenyl Ether: Liver, Kidney, Thyroid, Blood, and Eyes

N-Butanol: Respiratory Tract, Inner Ear, Eyes, and Skin

Petroleum Solvent: Respiratory Tract, Central Nervous System and Skin

Surfactants: Skin

## 12. TOXICOLOGICAL INFORMATION

### Summary of Effects

Prometon: Practically nontoxic to birds and slightly toxic to aquatic invertebrates and fish

### Eco-Acute Toxicity

Prometon:

Rainbow Trout 96-hour LC<sub>50</sub> 19.6 mg/L  
Bluegill Sunfish 96-hour LC<sub>50</sub> 41.5 mg/L  
Daphnia magna 48-hour LC<sub>50</sub> 37.5 mg/L  
Bobwhite Oral LD<sub>50</sub> >2,264 mg/kg  
Mallard Oral LD<sub>50</sub> 3,158 mg/kg  
Bobwhite 8-day Dietary LC<sub>50</sub> >5,620 ppm  
Mallard 8-day Dietary LC<sub>50</sub> >5,620 ppm

### Eco-Chronic Toxicity

Prometon:

Fish (Fathead minnow) Early Life Stage MATC 13.7 mg/L  
Invertebrate (Daphnia Magna) Life Cycle MATC 4.83 mg/L  
Mallard Reproduction NOEC 50 ppm  
Bobwhite Reproduction NOEC 175 ppm

### Environmental Fate

Prometon:

Not Available

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Ignitable

**LISTED WASTE:** NA

## 14. TRANSPORT INFORMATION

**DOT Classification:** Compounds, Tree or Weed Killing Liquid, (xylene), 3, NA 1993, PGIII  
For containers 1 gallon or less: Consumer Commodity ORM-D (Household Weed Killing Liquid)

**B/L Freight Classification:** Item 50320 [Compounds, tree or weed killing (herbicides), NOI, other than poison], Class 60

### IMO Classification:

Package size - 4 x 1 gallon, 12 x 1 quart

Limited Quantity exemption - no markings, labels or placards required.

Dangerous goods in limited quantities of class 3, UN 1993, PG III

Package size - 2 x 2.5 gallon

Flammable Liquid, N.O.S., (xylene), 3, UN 1993, PG III

Class 3 labels and placards required.

## 15. REGULATORY INFORMATION

### SARA TITLE III CLASSIFICATION

#### Section 311/312

Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

#### Section 313 Chemical(s)

1,2,4-Trimethylbenzene (CAS No. 95-63-6)  
Ethyl Benzene (CAS NO. 100-41-4)  
O-Xylene (CAS No. 95-47-6)  
Xylene (CAS No. 1330-20-7)

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N-Butanol. (CAS No. 71-36-3)  
Ethylene Glycol Mono Phenyl Ether (CAS No. 122-99-6)

**Proposition 65**

Not Applicable

**CERCLA Reportable Quantity (RQ)**

1,280 gallons (based on xylene [RQ=100] content in formulation)

**RCRA Classification**

Ignitable

**TSCA Status**

Exempt from TSCA

**16. OTHER INFORMATION**

**NFPA Hazard Ratings**

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

**MSDS Revised Date:** 5-12-03; Supercedes 2/14/00, 1/18/99, 8/4/00, 10/18/01, 6/12/02, and 4/15/03; Changes made to Section 14.

The information and recommendations herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

For additional information about this product, contact Makhteshim-Agan of North America, 551 Fifth Avenue, Suite 1100, New York, NY 10176, (212) 661-9800.