

MATERIAL SAFETY DATA SHEET

PRAMITOL[®] 25E

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1. IDENTIFICATION

Product name: **PRAMITOL[®] 25E (EPA Reg. No. 66222-22)**
Chemical name of active ingredient(s): Prometon: 2,4-bis(isopropylamino)-6-methoxy-s-triazine
Manufacturer/Registrant: Makhteshim Agan of North America, Inc.
3120 Highwoods Blvd., Suite 100
Raleigh, NC 27604
Phone: 919-256-9300
For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053
For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-877-250-9291

2. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS #	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA Carcinogen
Prometon (25%)	1610-18-0	25.0	N/E	N/E	N/E	NA
Aromatic hydrocarbons containing:	64742-95-6	50.2	N/E	N/E	N/E	NA
M-Xylene	108-38-3	4.0	100 ppm TWA	100 ppm TWA 150 ppm STEL	N/E	NA
O-Xylene	95-47-6	4.0	100 ppm TWA	100 ppm TWA 150 ppm STEL	N/E	NA
Ethyl Benzene	100-41-4	1.0	100 ppm TWA	100 ppm TWA 125 ppm STEL	N/E	IARC 2B
P-Xylene	106-42-3	1.0	100 ppm TWA	100 ppm TWA 150 ppm STEL	N/E	NA
1,2,4-Trimethylbenzene	95-63-6	11.5	N/E	25 ppm TWA	N/E	NA
Benzene (1-methylethyl)	98-82-8	3.0	50 ppm TWA	50 ppm TWA	N/E	NA

N/E=Not Established

NA=Not applicable

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES:

Appearance: Yellow to amber liquid

Odor: Aromatic solvent odor

EMERGENCY OVERVIEW: WARNING. Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor or spray mist.

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.

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.

PHYSICAL OR CHEMICAL HAZARDS: Do not use, pour, spill, or store near heat or open flame. Store at temperatures above 32°F.

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4. FIRST AID

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none">• 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 a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Prosar at 1-877-250-9291 for emergency medical treatment information.	
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.	

5. FIRE FIGHTING MEASURES

FLASH POINT: 98°F (TCC)

FLAMMABLE LIMITS (%in Air): LFL: 1.3%, UFL: 4.9%±0.25% by volume @ 60°C

AUTOIGNITION TEMPERATURE: 340°C

EXTINGUISHING MEDIA: Use dry chemical, foam, or CO₂.

FIRE & EXPLOSION HAZARDS: This product is a flammable material and forms flammable mixtures above 77°F.

HAZARDOUS DECOMPOSITION PRODUCTS: 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. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

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7. HANDLING AND STORAGE

PRECAUTIONS TO TAKE IN HANDLING: 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.

PRECAUTIONS TO TAKE IN STORAGE: Do not contaminate water, food, or feed by storage or disposal. 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.

STORAGE TEMPERATURES (MIN/MAX): Store at temperatures above 32°F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 CONSULT THE PRODUCT LABEL.

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 CONTACT: To avoid eye contact, wear chemical goggles or full-face shield.

SKIN CONTACT: To avoid skin contact, wear chemical-resistant gloves (such as natural rubber ≥ 14 mils), long-sleeved shirt, long pants, socks and shoes, and head covering.

INHALATION: 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.

ADDITIONAL PROTECTIVE MEASURES: 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.

USER SAFETY REQUIREMENTS: 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.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Minimize airborne concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow to amber liquid

ODOR: Aromatic solvent odor

SPECIFIC GRAVITY: 7.80 lbs/gallon

pH: 7-8

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

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

CONDITIONS TO AVOID: Strong Acids

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include, but are not limited to, carbon monoxide or carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

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11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Ingestion:

Slightly toxic
Oral LD₅₀ (Rat) 2,100 mg/kg body weight

Dermal:

Slightly toxic
Dermal LC₅₀ (Rabbit) 2,000-2,500 mg/kg body weight

Inhalation:

Slightly toxic
Dermal LC₅₀ (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

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:

Petroleum Solvent: Respiratory Tract, Central Nervous System and Skin

Surfactants: Skin

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and terrestrial invertebrates. 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 used for irrigation or domestic purposes. Do not contaminate water when disposing of equipment washwaters and rinsate. Apply this product only as specified on this label.

SUMMARY OF EFFECTS: Prometon

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

ECO-ACUTE TOXICITY: Prometon:

Rainbow Trout 96-hour LC₅₀ 19.6 mg/L

Bluegill Sunfish 96-hour LC₅₀ 41.5 mg/L

Daphnia magna 48-hour LC₅₀ 37.5 mg/L

Bobwhite Oral LD₅₀ >2,264 mg/kg

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Mallard Oral LD₅₀ 3,158 mg/kg
Bobwhite 8-day Dietary LC₅₀ >5,620 ppm
Mallard 8-day Dietary LC₅₀ >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

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

Do not contaminate water, food, or feed by storage or disposal.

PRODUCT DISPOSAL: Wastes resulting from use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

NA 1993, Compounds, Weed Killing, Liquid, (contains aromatic solvent), 3, PGIII

NOTE: Combination packages with inner packages less than 4 liters (1.057 gallons) may be reclassified as a Consumer Commodity (ORM-D). These packages cannot be shipped by air freight.

NOTE: Consumer Commodity (ORM-D) classification is for domestic surface/ground shipments only (4x1-gallon and 12 x1-quart packages). Air shipments remain regulated.

INTERNATIONAL TRANSPORTATION:

IMO (Vessel): UN 1993, Flammable Liquid, N.O.S. (contains aromatic solvent), 3, PG III

NOTE: Limited Quantity exemption - no hazard labels or placards required.

IATA (air): UN 1993, Flammable Liquid, N.O.S. (contains aromatic solvent), 3, PG III

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable
Section 311/312: Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

Section 313:

1,2,4-Trimethylbenzene (CAS No. 95-63-6) – 11.5%
M-Xylene (CAS No. 108-38-3) – 4.0%
Ethyl Benzene (CAS No. 100-41-4) – 1.0%
O-Xylene (CAS No. 95-47-6) – 4.0%
P-Xylene (CAS No. 106-42-3) – 1.0%
Benzene (1-methylethyl) (CAS No. 98-82-8) – 3.0%

CA PROPOSITION 65: This product contains a component (Ethyl Benzene) known to the State of California to cause cancer.

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

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RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

HAZARD RATINGS	NFPA		
HEALTH:	2	0	MINIMAL
FLAMMABILITY:	3	1	SLIGHT
REACTIVITY:	0	2	MODERATE
		3	HIGH
		4	SEVERE

MSDS DATE: 09-24-13. Supersedes version dated 11-17-10. Changes made to Sections 1, 4, 7, 8, 13, and 16.

The information herein is given in good faith, but no warrant, express or implied, is made. Consult Makhteshim Agan of North America, Inc. for further information.