

MATERIAL SAFETY DATA SHEET

Cotton Pro® Herbicide

Page 1 of 5

1. IDENTIFICATION

Product name: Cotton Pro® Herbicide
Chemical name of active ingredient(s): Prometryn: 2,4-bis(isopropylamino)-6-methylthio-s-triazine
Registrant/Manufacturer: Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Road, Suite 300
Raleigh, NC 27609
Phone: 919-256-9300
Phone: 1-800-535-5053

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

COMMON NAME	CAS NO.	%	OSHA/PEL	ACGIH/TLV	OTHER	NTP/IARC/OSHA Carcinogen
Prometryn	7287-19-6	44.0	NA	NA	NA	NA
Ethylene Glycol	107-21-1	0 - 9.3	NA	NA	NA	NA

NA=Not available

3. HAZARDS IDENTIFICATION

PHYSICAL PROPERTIES

Appearance: White to Off-White Suspension
Odor: Odorless

EMERGENCY OVERVIEW: CAUTION Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Do not breathe vapor or spray mist. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling.

SYMPTOMS OF ACUTE EXPOSURE: Exposure may cause irritation to skin, eyes, or upper respiratory tract.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS: None known.

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 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.
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.

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.

MATERIAL SAFETY DATA SHEET

Cotton Pro® Herbicide

Page 2 of 5

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION:

FLASH POINT (Test method): 200° F (93.3° C)

FLAMMABLE LIMITS (% in air): Not available.

AUTOIGNITION TEMPERATURE: Not available.

FLAMMABILITY: Not applicable.

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS: None known.

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

SPECIAL FIRE FIGHTING PROCEDURES: 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

IN CASE OF SPILL OR LEAK: For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call INFOTRAC at 1-800-535-5053.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN 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 BE TAKEN IN STORAGE: Store in original container, tightly closed, in a safe place.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

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.

EYE PROTECTION: Protective eyewear (e.g., goggles or full-face shield).

SKIN PROTECTION: Long-sleeved shirt and long pants, chemical-resistant apron and shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves, such as barrier laminate or Viton.

RESPIRATOR REQUIREMENTS: A dust/mist filtering respirator (MSHA/NIOSH) approval number prefix TC-21C or an air-purifying respirator equipped with an R- or P-series filter (NIOSH approval number prefix TC-84A).

ADDITIONAL PROTECTIVE MEASURES: Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- 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 changing into clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

MATERIAL SAFETY DATA SHEET

Cotton Pro® Herbicide

Page 3 of 5

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White to off-white suspension

ODOR: Odorless

MELTING POINT: Not applicable.

BOILING POINT: 100-110°C

SPECIFIC GRAVITY/DENSITY: 8.99 lb/gal

pH: 6-9

SOLUBILITY IN WATER: Prometryn: 33.0 mg/l @ 22°C.

VAPOR PRESSURE: Prometryn: 1.65E-01 mPA @ 25°C.

10. STABILITY AND REACTIVITY

STABILITY: Stable under standard conditions.

CONDITIONS TO AVOID: Strong acids and bases. Do not allow product to freeze.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD50 (Rat):	>5,000 mg/kg
Acute Dermal LD50 (Rabbit):	>2,000 mg/kg
Acute Inhalation LC50 (Rat):	>2.5 mg/L – 4 hrs.
Eye Irritation (Rabbit):	Mildly irritating.
Dermal Irritation (Rabbit):	Slightly irritating.
Dermal Sensitization (Guinea Pig):	Not a skin sensitizer

EFFECTS OF CHRONIC EXPOSURE:

MUTAGENICITY: Prometryn: None observed

REPRODUCTION TOXICITY: Prometryn: None observed

CHRONIC/SUBCHRONIC TOXICITY STUDIES: Prometryn: Liver, kidney, and bone marrow changes at highest dose (dogs); kidney effects (rats)

CARCINOGENICITY: Prometryn: None observed.

OTHER TOXICITY INFORMATION: Not available.

TOXICITY OF OTHER COMPONENTS:

Ethylene Glycol: Has been shown to produce dose-related teratogenic effects in rats and mice. Exposure to high concentrations of mists or aerosols may result in effects on the hematopoietic system and central nervous system with headache, dizziness, and drowsiness. Severe kidney damage results from swallowing large volumes of Ethylene Glycol.

TARGET ORGANS:

Active Ingredients:

Prometryn: Liver, kidneys, and bone marrow

Inert Ingredients:

Ethylene Glycol: Blood, kidneys, and central nervous system

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: 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 wash water or rinsate. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas.

SUMMARY OF EFFECTS: Prometryn: Practically nontoxic to birds and slightly toxic to aquatic invertebrates and moderately toxic to fish

Eco-Acute Toxicity:

MATERIAL SAFETY DATA SHEET

Cotton Pro® Herbicide

Page 4 of 5

Prometryn: Rainbow Trout 96-hour LC50 5.46 mg/L
Bluegill Sunfish 96-hour LC50 7.95 mg/L
Daphnia magna 48-hour LC50 12.7 mg/L
Bobwhite Oral LD50 >4,640 mg/kg
Mallard Oral LD50 4,640 mg/kg
Bobwhite 8-day Dietary LC50 >10,000ppm
Mallard 8-day Dietary LC50 >10,000 ppm

ENVIRONMENTAL FATE (Prometryn): No data available for the formulation. Environmental Persistence/Mobility: Stable in sterile water, in both the light and dark. In laboratory soil, degrades slowly in the light and dark, under both aerobic and anaerobic conditions (t1/2~9 mo to stable). High to medium mobility in four soil textures (Koc=116 to 448).

13. DISPOSAL CONSIDERATIONS:

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

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:

Not regulated

INTERNATIONAL TRANSPORTATION:

IMO (vessel): UN 3082, Environmentally hazardous substances, liquid, N.O.S. (prometryn), 9, PG III, Marine pollutant

IATA (air): UN 3082, Environmentally hazardous substances, liquid, N.O.S. (prometryn), 9, PG III, Marine pollutant

15. REGULATORY INFORMATION:

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Delayed health hazard (chronic)

Section 313: Prometryn (44.0%) CAS#: 7287-19-6

Ethylene glycol (0 - 9.3%) CAS#: 107-21-1

CA PROPOSITION 65: Not applicable

CERCLA RQ: Not applicable

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:

NFPA HAZARD RATINGS

HEALTH: 1	0 LEAST
FLAMMABILITY: 1	1 SLIGHT
REACTIVITY: 0	2 MODERATE
	3 HIGH
	4 SEVERE

MATERIAL SAFETY DATA SHEET

Cotton Pro® Herbicide

Page 5 of 5

MSDS DATE: 6-6-11. Superseded versions dated 8-13-09, 8-1-08, 5-25-06, 1-19-05, 9-29-03, 12-4-04, and 11-8-01; Changes made to Section 14.

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