

MATERIAL SAFETY DATA SHEET

PRAMITOL® 5PS

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1. IDENTIFICATION

Product name: **PRAMITOL® 5PS**
Chemical name of active ingredient(s): Prometon: 2,4-bis(isopropylamino)-6-methoxy-s-triazine
Sodium chlorate (NaClO₃)
Sodium metaborate* (Na₂B₂O₄)
Manufacturer/Registrant: Makhteshim Agan of North America, Inc.
4515 Falls of the Neuse Road, Suite 300
Raleigh, NC 27609
Phone: 919-256-9300
Phone: 800-535-5053
For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 877-250-9291
For medical emergencies and health and safety inquiries, contact Product Safety Resources:

2. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS #	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA Carcinogen
Prometon	1610-18-0	5.0	N/E	N/E	N/E	NA
Sodium Chlorate	775-09-9	39.8	N/E	N/E	10 mg/m ³ (total dust)**	NA
Sodium Metaborate	16800-11-6	40.78	N/E	5mg/m ³ TWA	NIOSH 5mg/m ³ (TWA)	NA

N/E=Not Established

NA=Not Applicable

*IARC Group 3 = The agent is unclassifiable as to carcinogenicity to humans.

**Recommended by manufacturer

3. HAZARDS IDENTIFICATION

PHYSICAL PROPERTIES

Appearance: White pellets

Odor: Odorless

EMERGENCY OVERVIEW: 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 reuse.

SYMPTOMS OF ACUTE EXPOSURE:

Exposure may cause substantial but temporary eye irritation. 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).

MEDICAL CONDITION(S) LIKELY TO BE AGGRAVATED BY EXPOSURE: None known.

4. 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.

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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 1-877-250-9291 for emergency medical treatment information.	
NOTES TO PHYSICIAN: 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: Not Flammable

FLAMMABLE LIMITS (%in Air): Not Applicable

AUTOIGNITION TEMPERATURE: Not Available

EXTINGUISHING MEDIA: Use dry chemical, foam, or CO₂

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS: An active ingredient of this product can react with other materials to cause fire or explosive mixtures. In this formulation the active ingredients are neutralized.

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 use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95-99.97% as appropriate for the size distribution of dusts present. For small spills, sweep up, keeping dust to a minimum, 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 clean up procedures and disposal of wastes.

7. HANDLING AND STORAGE

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

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 a dry place. Store material in a well ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in storage area.

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.

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.

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SKIN PROTECTION: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

RESPIRATORY PROTECTION: To avoid breathing dust, use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95-99.97% as appropriate for the size distribution of dusts present.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Minimize airborne concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White Pellets

ODOR: Odorless

SPECIFIC GRAVITY/DENSITY: 56.60 lbs./cu.ft.

pH: 10 (1% solution in water) @ 25°C

MELTING POINT: 89-91°C

VAPOR PRESSURE:

Prometon: 3.10E-06 mbar @ 20°C

Sodium Chlorate: Not Applicable

Sodium Metaborate: Not Available

SOLUBILITY IN WATER:

Prometon: 0.7 g/L @ 22°C

Sodium Chlorate: 49.5% @ 20°C

Sodium Metaborate: 5.8% @ 20°C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

CONDITIONS TO AVOID: Combustibles, Heat, Acids, Organic Compounds, Phosphorous, Sulfur, Sulfides, Ammonium Compounds, and Powdered Metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Reaction of sodium chlorate with acids releases chlorine and chlorine dioxide vapors which may ignite or explode spontaneously.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD50 (Rat): 3,396 mg/kg

Acute Dermal LD50 (Rabbit): >2,020 mg/kg

Acute Inhalation LC50 (Rat): >3.727 mg/L

Eye Irritation (Rabbit): Mildly irritating.

Dermal Irritation (Rabbit): Non-irritating.

Dermal Sensitization (Guinea Pig): Not a skin sensitizer

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: 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 washwaters.

13. DISPOSAL CONSIDERATIONS

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

PRODUCT DISPOSAL: Wastes resulting from use of this product may 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.

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14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated

INTERNATIONAL TRANSPORTATION

IMO (vessel): Not regulated

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION

Section 302: Not applicable

Section 311/312: Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard

Section 313: Not applicable

PROPOSITION 65: Not Applicable

CERCLA REPORTABLE QUANTITY: 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:	2	0	Least
Flammability:	0	1	Slight
Reactivity:	0	2	Moderate
		3	High
		4	Severe

MSDS DATE: 11-19-09; Supersedes versions dated 11-14-08, 2-09-07, 6-12-02, 8-4-00, 2-14-00 and 8-7-98. Changes made to sections 1, 2, 7, 9, 12 and 15.

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