

MATERIAL SAFETY DATA SHEET

MANA Phantom 240 SL

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1. IDENTIFICATION

Product name: **MANA Phantom 240 SL (PCP 30017)**
Chemical name of active ingredient(s): **Imazethapyr: ammonium 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylate**
Manufacturer/Registrant: **Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Road, Suite 300
Raleigh, NC 27609
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

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (CARCINOGEN)
Imazethapyr	81335-77-5	21.83%	NE	20ppm (TWA)	NA	NA
Ammonium Hydroxide	1336-21-6	5.16	NE	Ne	NA	NA

NE=Not established

NA=Not applicable

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES:

Appearance: Green liquid

Odor: Musty

EMERGENCY OVERVIEW: KEEP OUT OF REACH OF CHILDREN. This product may be harmful if swallowed, inhaled or absorbed through the skin. Do not contaminate food or feed products. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or spray mist. Use with adequate ventilation. May cause eye damage. May cause skin irritation.

PRIMARY ROUTES OF EXPOSURE: Eye and skin contact, ingestion and inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

4. FIRST AID

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IF SWALLOWED: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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 centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

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5. FIRE FIGHTING MEASURES

FLASH POINT: > 100°C

FLAMMABLE LIMITS: LFL/UFL: Not applicable.

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical, water spray.

HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Possible thermal decomposition products: carbon monoxide, nitrogen dioxide, nitrogen oxide, hydrocarbons. If product is heated above decomposition temperature toxic vapours may be released.

FIRE-FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Personal precautions: Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment. Cleanup: Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Do not eat, drink or smoke when using. Store and wash all protective clothing separately from normal laundry. Clean protective equipment (gloves, goggles, face shield) upon removal with soapy water. Clean spray equipment thoroughly after use. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store the leftover product in original tightly closed container. Keep product from freezing. Do not store below 0°C. If the product is exposed to temperatures below 0°C during shipment or storage, make sure the product has thawed completely, and shake the container vigorously. Do not ship or store the product near food, feed, seed and fertilizers. Store the product in cool, dry, locked, well-ventilated areas without floor drain.

STORAGE TEMPERATURE (MIN/MAX): Do not store below 0°C or above 40°C

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: Wear dust and/or splash-proof goggles or face shield

SKIN PROTECTION: Wear long-sleeved shirt and long-legged pants, shoes plus socks when handling

HAND PROTECTION: Chemically resistant gloves when mixing, loading and during application, clean-up and repair.

RESPIRATOR REQUIREMENTS: In areas with inadequate ventilation a NIOSH-approved TC23C chemical/mechanical type filter system to remove a combination of particles, gas and vapors or a self-contained breathing apparatus may be required when working with this product.

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ADDITIONAL PROTECTIVE MEASURES: Discarded clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. 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 after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Use with adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Green liquid

ODOR: Musty

FLASH POINT: > 100°C

pH: 6.60

DENSITY: 1.114 g/mL@20°C

VISCOSITY (Centistokes): 4.244 @ 20°C; 2.393 @ 40°C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions. Avoid all sources of ignition: heat, sparks, open flame.

Conditions to avoid: Ignition sources, heat or flame. Oxidizing agents and reducing agents. Avoid contact with mild steel and brass – corrosive.

MATERIALS TO AVOID: Oxidizing and reducing agents; unlined steel (except stainless steel).

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD50 (Rat):	> 5,000 mg/kg
Acute Dermal LD50 (Rat):	> 5,000 mg/kg
Acute Inhalation LC50 (Rat):	> 5.06 mg/L (4-hr)
Eye Irritation (Rabbit):	Minimally irritating
Dermal Irritation (Rabbit):	Slightly irritating
Dermal Sensitization (Guinea Pig):	Not a skin contact sensitizer

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Phantom 240 SL is toxic to aquatic organisms. Do not apply this product directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches, and wetlands), estuaries, or marine habitats. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

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

PRODUCT DISPOSAL: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, provincial, 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

CANADIAN REGULATIONS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the CPR.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute and Chronic health hazard

Section 313: Ammonium Hydroxide (5.16%) CAS#: 1336-21-6

CA PROPOSITION 65: Not applicable.

CERCLA RQ: Ammonium Hydroxide (CAS#: 1336-21-6) RQ = 1000 lbs.

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

MSDS DATE: 2-28-11.

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.