

MATERIAL SAFETY DATA SHEET

Bengal™ 120EC

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1. IDENTIFICATION

Product name: **Bengal™ 120EC (PCP 29268)**
 Chemical name of active ingredient(s): Fenoxaprop-p-ethyl: (+)-Ethyl 2-(4-((6-chloro-2-benzoxazolyl)oxy)phenoxy)propanoate
 Manufacturer: 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)
Fenoxaproop-p-ethyl	71283-80-2	11.94	NA	NA	NA	NA
Heavy aromatic petroleum hydrocarbons	64742-94-5	36.44	100 ppm 525 mg/m ³	NA	NA	NA
Contains Naphthalene (% of total)	91-20-3	<5.1	10 ppm 50 mg/m ³	10 ppm 52 mg/m ³	NA	NTP – 2* IARC – 2B**

NA=Not available

* NTP – 2: Substances which may reasonably be anticipated to be carcinogens.

** IARC – 2B: Substance is possibly carcinogenic to humans.

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES:

Appearance: Amber clear liquid

Odor: Aromatic odor

EMERGENCY OVERVIEW: CAUTION DANGER - EYE AND SKIN IRRITANT. Severely irritating to the eye. DO NOT get in eyes. May irritate the skin. Avoid contact with skin.

PRIMARY ROUTES OF EXPOSURE: Skin and eye contact and inhalation.

4.FIRST AID MEASURES

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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.

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.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically. Vomiting may cause aspiration pneumonia. Medical personnel should contact Makhteshim-Agan medical information services Prosar at 1 877-250-9291. Bengal™ 120 EC contains PETROLEUM DISTILLATES.

5. FIRE FIGHTING MEASURES

FLASH POINT: > 100°C (212°F)

FLAMMABLE LIMITS: LFL/UFL: Not available

EXTINGUISHING MEDIA: Water, foam, CO₂, dry chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: In the event of fire the following can be released: carbon monoxide, nitrogen oxides, sulfur oxides, and hydrogen chloride.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with skin, eyes and clothing. Do not let product enter drains. Use good housekeeping practices. Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Sweep up and place in an appropriate container. Hold for disposal. Pick up wash liquid with absorbent material and place in container for disposal. Dispose of in accordance with Section 13: Disposal Considerations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Do not breathe vapour. Keep container closed. Use only with adequate ventilation. Always wash thoroughly after handling.

PRECAUTIONS TO BE TAKEN IN STORAGE: Keep away from fire, open flame and other sources of heat. Cannot be stored below freezing. If stored for 1 year or longer, shake well before using. Store the tightly closed container, away from feeds, seeds, fertilizers, plants and foodstuffs. Do not use or store in or around the home. Keep in original container during storage.

STORAGE TEMPERATURE (MIN/MAX): Store above freezing.

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 goggles or face shield during mixing/loading, cleanup and repair activities.

SKIN PROTECTION: Wear coveralls over normal work clothes during all activities.

HAND PROTECTION: Wear chemical resistant gloves and apron during mixing/loading, cleanup and repair activities.

ADDITIONAL INFORMATION: Change contaminated clothing daily and wash before reusing. DO NOT handle product with bare hands. Chemical resistant gloves significantly reduce hand exposure. ALWAYS wear gloves for mixing/loading operations and when making sprayer and nozzle repairs and adjustments. DO NOT USE LEATHER OR CLOTH GLOVES. Rinse gloves with soap and water before removal, and wash hands thoroughly before eating, smoking or drinking. Clean protective equipment daily. Do not re-enter treated areas within 12 hours of application.

EXPOSURE GUIDELINES: Refer to Section 2.

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ENGINEERING CONTROLS: Use adequate ventilation to minimize airborne concentrations of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPARANCE: Amber clear liquid

ODOR: Aromatic odor

pH: 5.02±0.05

SPECIFIC DENISTY: 1.045 g/mL @ 20°C

FLASH POINT: > 100°C (212°F)

VISCOSITY (Centistokes): 27.166 @ 20°C; 11.657 @ 40°C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions. Do not allow to freeze.

MATERIALS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Not applicable.

HAZARDOUS DECOMPOSITION PRODUCTS: In the event of fire the following can be released: carbon monoxide, nitrogen oxides, sulfur oxides, and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD₅₀ (Rat) : > 3,129 mg/kg

Acute Dermal LD₅₀ (Rat) : > 5,000 mg/kg

Acute Inhalation LC50 (Rat): > 2.08 mg/L (4-hr.) (male rat); > 5.07 mg/L (4-hr.)(female rat)

Eye Irritation: Severely irritating

Dermal Irritation: Moderately irritating

Dermal Sensitization: Not a skin sensitizer

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is toxic to fish, daphnids, aquatic plants, terrestrial plants and some terrestrial invertebrates. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment. Observe buffer zones specified under Directions for Use, Section 9: Application Instructions and Cautions. Do not apply to land where tail water will be used to irrigate crop land. Do not contaminate irrigation water. Avoid spray drift onto susceptible plants (e.g. Tame Oats, flowers, trees or shrubs) and non-target areas.

13. DISPOSAL CONSIDERATIONS

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

PESTICIDE 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 provincial requirements.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Non-bulk: Not regulated

Bulk <225 gallons: UN3082, Environmentally hazardous substances, liquid, N.O.S. (Fenoxaprop-p-ethyl), 9, PGIII, Marine Pollutant

Bulk ≥225 gallons: UN3082, Environmentally hazardous substances, liquid, N.O.S. (Fenoxaprop-p-ethyl), 9, PGIII, Marine Pollutant, RQ (naphthalene)

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INTERNATIONAL TRANSPORTATION:

IMO (vessel): UN3082, Environmentally hazardous substances, liquid, N.O.S. (Fenoxaprop-p-ethyl), 9, PGIII, Marine Pollutant

IATA (air): UN3082, Environmentally hazardous substances, liquid, N.O.S. (Fenoxaprop-p-ethyl), 9, PGIII, Marine Pollutant

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.

Canadian Domestic Substance : Naphthalene <5.1% CAS#: 91-20-3

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Section 313: Naphthalene <5.1% CAS#: 91-20-3

CA PROPOSITION 65: This product contains a material (naphthalene) known to the state of California to cause cancer.

CERCLA RQ: Naphthalene RQ=100 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	
HEALTH:	2	2	0 MINIMAL
FLAMMABILITY:	1	1	1 SLIGHT
REACTIVITY:	1	1	2 MODERATE
			3 HIGH
			4 SEVERE

MSDS DATE: 10-29-10. Supersedes version dated 2-26-09. Changes made to sections 3, 4, 7 and 14.

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.