

1. IDENTIFICATION

Product name: **BUMPER® ES**
 Chemical name of active ingredient(s): Propiconazole: 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]Methyl]-1H-1,2,4-triazole
 Registrant: Makhteshim Agan of North America, Inc.
 3120 Highwoods Boulevard, Suite 100
 Raleigh, NC 27604
 Phone: 1-919-256-9300
 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	ACIGH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Propiconazole	60207-90-1	40.85	NA	NA	NA	NA

3. HAZARDS IDENTIFICATION**PHYSICAL PROPERTIES:**

Appearance: Light yellow liquid
 Odor: Mild surfactant

EMERGENCY OVERVIEW: CAUTION. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking chewing gum, using tobacco or using the toilet. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse.

HAZARDOUS THERMAL (DE)COMPOSITION PRODUCTS: NO_x, CO, CO₂ and chlorides.

PRIMARY ROUTES OF EXPOSURE: Ingestion, eye and skin contact.

SYMPTOMS OF ACUTE EXPOSURE: Skin redness and tears.

PHYSICAL OR CHEMICAL HAZARDS: Do not use, pour, spill, or store near heat or open flame. Do not use with or store near any oxidizing agents.

4. FIRST AID

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IF SWALLOWED:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not give any liquid to the person. • 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 to 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 to 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 Prostar at 1-877-250-9291 for emergency medical treatment information.

NOTE TO PHYSICIAN: There is no specific antidote for this product. Induce emesis or lavage stomach, taking care to avoid aspiration of stomach contents into lungs.

5. FIRE FIGHTING MEASURES

FLASH POINT: >230° F (110°C)

EXTINGUISHING MEDIA: Water spray, fog or regular foam.

SPECIAL FIRE-FIGHTING PROCEDURES: Fight fire from a protected location. Dike fire control water for later disposal.

HAZARDOUS THERMAL (DE)COMPOSITION PRODUCTS: NO_x, CO, CO₂ and chlorides.

PROTECTION OF FIRE FIGHTERS: Wear suitable protective clothing. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Dispose of this material and its container at hazardous or special waste collection point, in accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out. In the event of minor spillage: Absorb in sand or other inert material. Use appropriate containment to avoid environmental contamination. In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Handle and open container in a manner as to prevent spillage. Do not get on skin or in eyes. Do not eat, drink or smoke during work; wash hands and face thoroughly before doing so. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

PRECAUTIONS TO BE TAKEN IN STORAGE: To prevent contamination, store this product away from food or feed. Store in the original container in a cool and secure 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.

SKIN PROTECTION: Long-sleeved shirt, socks, chemical-resistant footwear and overalls when mixing, handling the product and during equipment cleanup and repairs

EYE PROTECTION: Wear protective goggles or face shield when handling the concentrated product..

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

RESPIRATOR REQUIREMENTS: In areas with inadequate ventilation a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus may be required when working with this product.

ADDITIONAL PROTECTIVE MEASURES: After work, change clothing and wash entire body thoroughly. Wash contaminated working clothes separate from other laundry before reuse. Do not contaminate food or feed.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change in to clean clothes.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light yellow liquid

ODOR: Mild surfactant

FLASH POINT: 230°F (110°C)

pH: 4.71

DENSITY: 1.062 g/cc (8.86 lb/gal) @26°C; 1.052 g/cc (8.78 lb/gal) @40°C

VISCOSITY(centipoises): 94.3@26°C; 42.2@40°C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Protect from sunlight, open flame and sources of heat. Decomposes upon heating.

MATERIALS TO AVOID: Avoid contact with: strong acids and strong bases.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: NO_x, CO, CO₂ and chlorides.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD50 (Rat):	2,000 mg/kg
Acute Dermal LD50 (Rat):	>5,050 mg/kg
Acute Inhalation LC50 (Rat):	>2.19 mg/L (4-hr)
Eye Irritation (Rabbit):	Mildly irritating.
Dermal Irritation (Rabbit):	Slightly irritating.
Dermal Sensitization (Guinea Pig):	Not a skin sensitizer

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. For terrestrial uses, 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. Refer to product labeling for use restrictions to protect endangered species.

13. DISPOSAL CONSIDERATIONS:

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

PRODUCT DISPOSAL: Pesticide wastes may be 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): 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.

U.S. FEDERAL REGULATIONS:

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.
Section 311/312: Acute health hazard (immediate)
Delayed health hazard (chronic)
Section 313: Propiconazole CAS #: 60207-90-1 (40.85%)

CERCLA RQ: Not applicable

CA PROP 65: 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:

MSDS DATE: 6-4-12.

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.