

Safety Data Sheet

Issue Date: 04-Jun-2012 Revision Date: 17-Sept-2015 Version 2

1. IDENTIFICATION

Product Identifier

Product Name BUMPER ES

Other means of identification

SDS # ADAMA-050

Registration Number(s) EPA Reg. No. 66222-241

Recommended use of the chemical and restrictions on use

Recommended Use EPA registered pesticide.

Details of the supplier of the safety data sheet

Manufacturer Address

Makhteshim Agan of North America, Inc. (d/b/a ADAMA) 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604 1-919-256-9300

Emergency Telephone Number

Emergency Telephone (24 hr) For fire, spill and/or leak contact INFOTRAC:

1-800-535-5053 (North America) 1-352-323-3500 (International) For medical emergencies and health/safety inquiries, contact PROSAR:

1-877-250-9291

2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Light yellow liquid Physical State Liquid Odor Mild surfactant

Classification

Acute toxicity – Inhalation (Dusts/Mists)	Category 4
Acute toxicity - Oral	Category 4
Skin sensitization	Category 1

Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

Signal Word Warning

Hazard Statements

Harmful if inhaled Harmful if swallowed May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves

Precautionary Statements - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a poison center/doctor if you feel unwell IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Propiconazole [1-[2-(2,4-Dichlorophenyl)-4-propyl-	60207-90-1	40.85
1,3-dioxolan-2-yl]-methyl-1H-1,2,4,-triazole]		
Proprietary solvent	Proprietary	<4

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

General Advice When possible, have the product container or label with you when calling a poison control

center or doctor or going for treatment. If exposed or concerned: Get medical

advice/attention.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a poison control center or doctor for

treatment advice.

Skin Contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Inhalation Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial

respiration. Call a poison control center or doctor for further treatment advice.

Immediately call a poison center or doctor/physician. Do not induce vomiting, unless

directed by medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms Harmful if swallowed. Mild eye, skin, and/or respiratory irritation. May cause an allergic skin

reaction.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. If ingested, induce emesis or lavage stomach. No specific antidote.

Treatment of exposure should be directed at the control of symptoms and the clinical

condition of the patient.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, fog or regular foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

This product is non-combustible, but it decomposes when heated to high temperatures.

Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monoxide. Carbon dioxide (CO2). Chlorides.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard

area. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12. Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-UpReclaim where possible. Vacuum or sweep up material and place in a disposal container.

Wash area with soap and water. Pick up wash liquid with inert absorbent and place in a

chemical waste container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid spilling. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from open flames,

hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of

the reach of children. Keep/store only in original container. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Store at ambient conditions. Protect

from sunlight.

Incompatible Materials Incompatible with strong acids and bases. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines The following information is given as general guidance

Appropriate engineering controls

Engineering Controls Please refer to the product label. Use only with adequate ventilation. Use process

enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure

to airborne contaminants below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles). Goggles are recommended.

Skin and Body ProtectionWear appropriate clothing to prevent repeated or prolonged skin contact. Wear long-

sleeved shirt, long pants, and shoes plus socks. Use chemical resistant gloves, such as

P.V.C., butyl-rubber, nitrile-rubber, or neoprene.

Respiratory Protection NIOSH-approved respirator or mask in the absence of adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash face, hands

and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it before reuse. Discard 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. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

AppearanceLight yellow liquidOdorMild surfactantColorLight yellowOdor ThresholdNot determinedPropertyValuesRemarks • Method

рH 4.71 Melting Point/Freezing Point Not determined **Boiling Point/Boiling Range** Not determined Flash Point 110 °C / 230 °F **Evaporation Rate** Not determined Flammability (Solid, Gas) Liquid-not applicable **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined Vapor Density Not determined **Specific Gravity** Not determined

Water Solubility Not determined Solubility in other solvents Not determined Partition Coefficient Not determined

Auto-ignition Temperature

Decomposition Temperature

Kinematic Viscosity

Not determined

Not determined

Dynamic Viscosity 94.3 @ 26°C; 42.2 @ 40°C centipoise

Explosive PropertiesNot determined **Oxidizing Properties**Not determined

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

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children. Avoid direct sunlight. Open flames.

Incompatible Materials

Incompatible with strong acids and bases. Oxidizing agents.

Hazardous Decomposition Products

Decomposes to Hazardous Combustion Products. Nitrogen oxides (NOx). Carbon monoxide. Carbon dioxide (CO2). Chlorides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Causes mild skin irritation.

Inhalation Harmful if inhaled.

Ingestion Harmful if swallowed

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propiconazole [1-[2-(2,4- Dichlorophenyl)-4-propyl-1,3- dioxolan-2-yl]-methyl-1H-1,2,4,- triazole] 60207-90-1	= 1517 mg/kg(Rat)	> 4 g/kg (Rat)	= 1264 mg/m³(Rat) 4 h
Proprietary solvent	1516 - 2774 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Not classifiable as a human carcinogen.

Product Information (Numerical measures of toxicity)

Acute Oral LD50 (Rat): 2,000 mg/kg

Acute Dermal LD50 (Rabbit): >5,050 mg/kg Acute Inhalation LC50 (Rat): >2.19 mg/L (4-hr)

Eye Irritation: Mildly irritating. **Dermal Irritation**: Slightly irritating.

Dermal Sensitization: Not a skin sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. 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.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Proprietary solvent	11.5: 72 h Desmodesmus subspicatus mg/L EC50	32 - 37: 96 h Oncorhynchus mykiss mg/L LC50 static 7.5: 96 h Oncorhynchus mykiss mg/L LC50 27 - 29.5: 96 h Pimephales promelas mg/L LC50 flow-through 29.7: 96 h Pimephales promelas mg/L LC50 static 10.0 - 33.0: 96 h Lepomis macrochirus mg/L		39: 48 h Daphnia magna mg/L EC50
		LC50 static		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

WODIIITY	
Chemical Name	Partition Coefficient
Proprietary solvent	3.1

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of WastesPesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate

is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

<u>Poot</u> Pack size less than 119 Gallons (450 L): Not Regulated

Pack size over 119 Gallons (450L):

UN 3082, Environmentally hazardous substance, liquid, N.O.S. (Propiconazole), 9, PG III,

Marine pollutant

IATA UN 3082, Environmentally hazardous substance, liquid, N.O.S. (Propiconazole), 9, PGIII

IMDG UN 3082, Environmentally hazardous substance, liquid, N.O.S. (Propiconazole), 9, PGIII,

Marine Pollutant

15. REGULATORY INFORMATION

International Inventories

TSCA All ingredients are listed or exempt from listing on Chemical Substance Inventory

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Propiconazole [1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]-methyl-1H-1,2,4,-triazole] - 60207-90-1	60207-90-1	39.6-42.1	1.0

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Propiconazole [1-[2-(2,4-	X		
Dichlorophenyl)-4-propyl-1,3-			
dioxolan-2-yl]-methyl-1H-1,2,4,-			
triazole]			
60207-90-1			
Proprietary solvent		X	X

EPA Pesticide Registration Number 66222-241

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Signal Word: 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.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Caution	Warning
Acute toxicity – Inhalation	N/A	Harmful if inhaled
Acute toxicity - Oral	Harmful if swallowed	Harmful if swallowed
Acute toxicity - Dermal	N/A	Causes mild skin irritation
Serious eye damage/eye irritation	Causes moderate eye irritation	N/A

16. OTHER INFORMATION

NFPA **Health Hazards Flammability** Instability **Special Hazards** Not determined Not determined Not determined Not determined **Physical Hazards Personal Protection** HMIS **Health Hazards Flammability** Not determined Not determined Not determined Not determined

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet