



## Bayer Advanced Garden Power Force Kills Bugs Fast Mosquito Killer Plus Outdoor Fogger

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Product Name</b>	Bayer Advanced Garden Power Force Kills Bugs Fast Mosquito Killer Plus Outdoor Fogger
<b>Chemical Name</b>	
<b>Common Name</b>	
<b>MSDS Number</b>	1990
<b>Chemical Family</b>	
<b>Chemical Formulation</b>	
<b>EPA Registration No.</b>	73049-331-72155

Bayer Environmental Science  
95 Chestnut Ridge Road  
Montvale, NJ 07645  
USA

For MEDICAL, TRANSPORTATION or Other EMERGENCY call 1-800-334-7577 24 hours/day  
For Product Information call 1-800-331-2867

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Tetramethrin	7696-12-0	0.1500	
Permethrin	52645-53-1	0.1500	
Piperonyl butoxide	51-03-6	0.7500	
Isoparaffinic Petroleum Solvent	64742-47-8		15.0000
Isobutane (propane, 2-methyl)	75-28-5		20.0000
Propane	74-98-6		5.0000

### SECTION 3. HAZARDS IDENTIFICATION

*NOTE: Please refer to Section 11 for detailed toxicological information.*

#### Emergency Overview

Caution! Hazards to humans and domestic animals. Harmful if absorbed through the skin or inhaled. Avoid contact with skin or clothing. Avoid breathing vapors and spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Avoid contamination of feed and foodstuffs.

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<b>Odor</b>	Odorless to mild soap like.
<b>Appearance</b>	Off-white
<b>Routes of Exposure</b>	Skin contact.
<b>Immediate Effects</b>	
<b>Eye</b>	May cause slight irritation.
<b>Skin</b>	May cause slight irritation.

### SECTION 4. FIRST AID MEASURES

<b>Eye</b>	Flush eyes with plenty of water. Call a doctor for further treatment advice.
<b>Skin</b>	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.
<b>Inhalation</b>	Remove 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.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	Not available
<b>Explosiveness</b>	Product possesses no explosive potential.
<b>Fire and Explosion Hazards</b>	Contents under pressure. Do not use or store near heat or open flame. Do not use on surfaces that can be harmed or stained by water. Do not use this product in or on electrical equipment due to the possibility of shock hazard. Do not puncture or incinerate container. Exposure to elevated temperatures may cause bursting.
<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO2), Dry chemical, Foam, Water
<b>Fire Fighting Instructions</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>General and Disposal</b>	Soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.
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### SECTION 7. HANDLING AND STORAGE

**Handling Procedures** Remove pets, birds and cover fish aquaria before spraying or surface applications. Do not allow children and pets to enter the treated area until it has dried.

Avoid contact with skin, eyes and clothing. Vacate room after treatment and ventilate before reoccupying.

**Storing Procedures** Store in a cool, dry area.

**Work/Hygienic Procedures** Wash with soap and water after handling.

Cover all food processing surfaces and utensils during treatment or thoroughly wash before use. Cover or remove exposed food.

**Min/Max Storage Temperatures** Do not transport or store below 0 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use only in a well ventilated area.

**Eye/Face Protection** Safety glasses

**Hand Protection** Chemical resistant gloves.

#### Exposure Limits

Isoparaffinic Petroleum Solvent	64742-47-8	ACGIH NIC	TWA		200 mg/m3
Propane	74-98-6	ACGIH	TWA		2,500 ppm
		NIOSH	REL	1,000 ppm	1,800 mg/m3
		OSHA Z1	PEL	1,000 ppm	1,800 mg/m3
		US CA OEL	TWA PEL	1,000 ppm	1,800 mg/m3

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Off-white

**Odor** Odorless to mild soap like.

**pH** 6.9 - 7.5

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**Density** 7.91 - 8.07 lbs/gal

**Other Information** Formulation is negative for flame extension.

### SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable

Product does not have the potential to act as a strong oxidizing or reducing agent.

**Hazardous Polymerization (Conditions to avoid)** Will not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity** LD50: > 5,000 mg/kg  
Category 4

**Acute Dermal Toxicity** LD50: > 2,000 mg/kg  
Category 3

**Acute Inhalation Toxicity** LC50: > 4.31 mg/l  
Category 4

**Skin Irritation** Mild irritant.  
Category 3

**Eye Irritation** Minimal irritant.  
Category 4

**Sensitization** Non-sensitizer.

Acute toxicity data is not available for this formulation. Acute toxicity data was bridged from the concentrate used to manufacture this product, Tetraperm (10-10-50) WB Concentrate; EPA Reg. No. 73049-330, which contains 10% Tetramethrin, 50% Piperonyl Butoxide and 10% Permethrin.

**Chronic Toxicity** A statistically significant increase in the incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin technical over 85 weeks.

A statistically significant increase in the number of benign liver tumors appeared in mice fed piperonyl butoxide technical at doses which far exceed any anticipated daily human intake. Independent and industry toxicological experts who have reviewed the data, agree that the findings of the study do not indicate

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a health risk to human beings.

### Assessment Carcinogenicity

**ACGIH**

None

**NTP**

None

**IARC**

Permethrin 52645-53-1 3

Piperonyl butoxide 51-03-6 3

**OSHA**

None

### SECTION 12. ECOLOGICAL INFORMATION

**Environmental  
Precautions**

This product is toxic to fish. Do not apply directly to any body of water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Container Disposal**

If empty, place in trash or offer for recycling if available.

If partly filled, call your local solid waste agency for disposal instructions.

**RCRA Classification**

Not Regulated under this Statute

### SECTION 14. TRANSPORT INFORMATION

**DOT CLASSIFICATION:**

Consumer Commodity, ORM-D

**FREIGHT CLASSIFICATION:**

Insecticides or Fungicides, other than poison

### SECTION 15. REGULATORY INFORMATION

**EPA Registration No.**

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### US Federal Regulations

#### TSCA list

Piperonyl butoxide	51-03-6
Isoparaffinic Petroleum Solvent	64742-47-8
Propane	74-98-6

#### TSCA 12b export notification

None

#### SARA Title III - section 302 - notification and information

None

#### SARA Title III - section 313 - toxic chemical release reporting

Tetramethrin	7696-12-0	1.0%
Permethrin	52645-53-1	1.0%
Piperonyl butoxide	51-03-6	1.0%

### US States Regulatory Reporting

#### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

### US State right-to-know ingredients

Tetramethrin	7696-12-0	NJ
Permethrin	52645-53-1	NJ
Piperonyl butoxide	51-03-6	NJ
Propane	74-98-6	IL, MN, NJ, PA, RI

### Canadian Regulations

#### Canadian Domestic Substance List

Piperonyl butoxide	51-03-6
Isoparaffinic Petroleum Solvent	64742-47-8
Propane	74-98-6

### Environmental

#### CERCLA

None

#### Clean Water Section 307 Priority Pollutants

None

#### Safe Drinking Water Act Maximum Contaminant Levels

None

### International Regulations

#### EU Classification

Isobutane (propane, 2-methyl)	75-28-5	Extremely flammable Toxic
R Phrases		May cause cancer. May cause heritable genetic damage. Extremely flammable.
S Phrases		Avoid exposure - obtain special instructions before use. In

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case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

### European Inventory of Existing Commercial Substances (EINECS)

Tetramethrin	7696-12-0
Permethrin	52645-53-1
Piperonyl butoxide	51-03-6
Isoparaffinic Petroleum Solvent	64742-47-8
Propane	74-98-6

## SECTION 16. OTHER INFORMATION

NFPA	Health	Flammability	Reactivity	Others
	1	2	0	

MSDS REVISION INDICATOR: Section 2. Composition/Information on Ingredients: updated inert percentages; Section 9. Physical and Chemical Properties: updated Density.

Approval Date: 11/18/2003

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