Bayer Environmental Science



MSDS Number: 000000002035

Bayer Advanced Garden PowerForce Kills Bugs Fast Multi-Insect Killer Concentrate

MSDS Version 1.0

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name Bayer Advanced Garden PowerForce Kills Bugs Fast Multi-Insect Killer

Concentrate

Chemical Name

Synonym

MSDS Number 2035

Chemical Family
Chemical Formulation
EPA Registration No.
Canadian Registrat. No.

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

Product Use Description Insecticide, for use on: Lawns, Ground Covers, Flowers, Shrubs, Trees, Around

Homes

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS No.	Concentration % by Weight	
- Idea a do Component Italio	<u> </u>	Minimum	Maximum
Beta-cyfluthrin Technical	68359-37-5	0.3400	0.4200
Naphthalene	91-20-3		0.0960

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Harmful if swallowed or inhaled. Causes eye irritation. Avoid contact

with skin, eyes and clothing. Wash thoroughly with soap and water after

handling.

Physical State Low viscosity liquid

Appearance Off-white

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Routes of Exposure Inhalation and ingestion.

Immediate Effects

Eye Causes eye irritation. Avoid contact with eyes.

Skin Non-irritating.

Ingestion Harmful if swallowed. Do not take internally.

Inhalation Harmful if inhaled. Avoid breathing spray mist.

SECTION 4. FIRST AID MEASURES

Eye Hold eye open and rinse slowly and gently with water for 15-20 minutes. Call a

physician if irritation persists.

Skin Seek medical attention if irritation develops or persists.

Ingestion Have person sip a glass of water if able to swallow. Call a poison control center

or doctor for treatment advice.

Inhalation Move person to fresh air. Call a poison control center or doctor for further

treatment advice. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point Not applicable

Suitable Extinguishing

Media

Water, Foam, Dry chemical

Fire Fighting Instructions

Keep out of smoke. Cool exposed containers with water spray. Wear full protective clothing and self-contained breathing apparatus. Contain runoff to prevent entry into sewers or waterways. Equipment or materials involved in

pesticide fires may become contaminated.

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal Keep unnecessary people away, isolate hazard area and deny entry. Do not

walk through spilled material.

Land Spill or Leaks Avoid breathing vapors and skin contact. Wear proper protective equipment.

Dike contaminated area with absorbent granules, soil, sand, etc. Large Spill: Material should be recovered. Small spills can be absorbed with absorbent granules, spill control pads, or any absorbent material. Carefully sweep up

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absorbed spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

SECTION 7. HANDLING AND STORAGE

Handling Procedures When using in animal quarters, do not apply directly to food, water or food

supplements. Do not permit children or pets to go on treated areas until spray

has dried.

Storing Procedures Store in a cool, dry area. Store in original container and out of the reach of

children, preferably in a locked storage area.

Protect product from freezing temperatures.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General Protection

There are no known hazards associated with this product when used according to the label directions. At the same time, the following guidelines should be used.

Avoid breathing vapors and mists.

Avoid contact with skin and eyes.

Wash hands thoroughly with soap and water after handling and before eating,

drinking, chewing gum, using tobacco, or using the toilet.

Do not allow children and pets to enter the treated area until it has dried.

Exposure Limits

Naphthalene	91-20-3	ACGIH	TWA		10 ppm
rapriiraierie	01 20 0	ACGIH	STEL		15 ppm
		NIOSH	REL	10 ppm	50 mg/m3
		NIOSH	STEL	15 ppm	75 mg/m3
		OSHA Z1	PEL	10 ppm	50 mg/m3
		OSHA Z1A	TWA	10 ppm	50 mg/m3
		OSHA Z1A	STEL	15 ppm	75 mg/m3
		US CA OEL	TWA PEL	10 ppm	50 mg/m3
		US CA OEL	STEL	15 ppm	75 ma/m3

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Off-white

Physical State Low viscosity liquid

pH 7.7 - 7.9 at 25 °C

Bulk Density 0.98 - 1.00 g/cc at 20/20°C

Viscosity 2.5 - 3.5 mPa.s 23 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability This material is stable under normal handling and storage conditions described

in Section 7.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity Male Rat: LD50: 960 mg/kg

Female Rat: LD50: 1,150 mg/kg

Acute Dermal Toxicity Male/Female Combined Rat: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity Male/Female Combined Rat: LC50: 4-hr exposure to liquid aerosol: > 1.72 mg/l

(actual)

Maximum attainable concentration.

Male/Female Combined Rat: 1-hr exposure to dust (extrapolated from 4-hr

LC50): > 6.88 mg/l (actual)

Skin Irritation Rabbit: Not a dermal irritant.

Eye Irritation Rabbit: Mild irritation to the conjunctiva was observed with all irritation clearing

within 7 days post-treatment.

Sensitization Guinea pig: Not a dermal sensitizer.

Acute toxicity studies for this product have been bridged from another product containing ~11.8% of the active ingredient, Beta-cyfluthrin, an enriched isomer mixture of Cyfluthrin. The non-acute information pertains to the active ingredient Beta-cyfluthrin technical. Toxicology information on Cyfluthrin technical can be obtained by calling the Product Use Information Number on page 1.

Sub-Chronic Toxicity In a subchronic dietary study, dogs treated with beta-cyfluthrin, exhibited

vomiting, diarrhea, decreased body weight gain and clinical neurological

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symptoms at the highest dose level (360 ppm).

In a subchronic dietary study in rats treated with beta-cyfluthrin, effects included reduced body weight gains and feed consumption, uncoordinated gait, and skin injuries of the neck and head from excessive preening due to the local irritant effect of the test material.

In a 4-week inhalation study in rats exposed to beta-cyfluthrin, effects observed included ungroomed fur, piloerection, hyper- and hypoactivity, reduced body weight gains, hematological changes and reduced organ weights (thymus, spleen).

Assessment Carcinogenicity

ACGIH

91-20-3 Naphthalene Group A4

NTP

Naphthalene 91-20-3

IARC None OSHA None

Reproductive & **Developmental Toxicity**

DEVELOPMENTAL TOXICITY: In an oral developmental toxicity study in rats treated with beta-cyfluthrin, decreased fetal body weights and an increased incidence of skeletal findings were observed at the maternally toxic and lethal

high dose level (40 mg/kg).

In acute and subchronic neurotoxicity screening studies in rats, beta-cyfluthrin **Neurotoxicity**

produced slight transient neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes in neural tissues

in either study.

Mutagenicity Numerous in vitro and in vivo mutagenicity studies have been conducted on

beta-cyfluthrin, all of which are negative.

SECTION 12. ECOLOGICAL INFORMATION

Environmental **Precautions**

This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of equipment wastewaters. This product is highly toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treated area. Apply this product only as specified on the label.

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SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal

Guidance

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow any applicable state or local guidelines. Never place unused product down any indoor or outdoor drain.

Container Disposal Do not reuse empty container. Triple rinse (or equivalent). Wrap container and

put in trash collection.

RCRA Classification Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated for transportation

FREIGHT CLASSIFICATION:

Insecticides or Fungicides, N.O.I.; other than poison

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

EPA Registration No.

TSCA list

Naphthalene 91-20-3

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

Beta-cyfluthrin Technical 68359-37-5 1.0% Naphthalene 91-20-3 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

Beta-cyfluthrin Technical 68359-37-5 US. EPA Emergency Planning and

Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR

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372.65) - Supplier Notification

Required

Naphthalene 91-20-3 CA, CT, IL, MN, NJ, PA, RI

Canadian Regulations

Canadian Registrat. No.

Canadian Domestic Substance List

Naphthalene 91-20-3

Environmental

CERCLA

Naphthalene 91-20-3 100 lbs

Clean Water Section 307 Priority Pollutants

Naphthalene 91-20-3 **Safe Drinking Water Act Maximum Contaminant Levels**Naphthalene 91-20-3

International Regulations

EU Classification

Naphthalene 91-20-3 Harmful Dangerous for the

environment

R Phrases Harmful if swallowed. Very toxic to aquatic organisms, may

cause long-term adverse effects in the aquatic environment.

S Phrases Keep out of the reach of children. Wear suitable protective

clothing and gloves. This material and its container must be disposed of as hazardous waste. Avoid release to the

environment. Refer to special instructions/safety data sheets.

European Inventory of Existing Commercial Substances (EINECS)

Naphthalene 91-20-3

SECTION 16. OTHER INFORMATION

Health Flammability Reactivity Others

NFPA 1 1 1

MSDS REVISION INDICATOR: New MSDS.

Approval Date: 10/28/2003

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