



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Bug Blaster II Bifenthrin 2.4

SECTION 1: Identification

Product identifier

Product name	Hi-Yield Bug Blaster II Bifenthrin 2.4
Product number	32395
Brand	Hi-Yield

Other means of identification

EPA Reg. No. 53883-178-7401

Recommended use of the chemical and restrictions on use

Insecticide; See product label for a complete list of uses and use sites.

Supplier's details

Name	Voluntary Purchasing Groups, Inc.
Address	230 FM 87 Bonham, TX 75418 USA
Telephone	855-270-4776

Emergency phone number(s)

In the event of a medical or chemical emergency contact ChemTel, Inc.
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Acute toxicity, inhalation (C.4.3), Cat. 4
- Toxic to reproduction (C.4.10), Cat. 1B

GHS label elements, including precautionary statements

Pictogram

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Signal word

Danger

Hazard statement(s)

H332
H360

Harmful if inhaled
May damage fertility or the unborn child.

Precautionary statement(s)

P201
P202
P280
P261
P271
P304+P340

P312
P308+P313
P405
P501

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with Federal, state and local laws and regulations.

Statement regarding ingredients of unknown toxicity

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity:

10.0%	Acute oral toxicity
10.0%	Acute dermal toxicity
47.55%	Acute inhalation toxicity
10.0%	Eye irritation
10.0%	Skin irritation
10.0%	Skin sensitization

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Bifenthrin

Concentration	2.4 % (weight)
CAS no.	82657-04-3

2. N-METHYL-2-PYRROLIDONE

Concentration	<= 1.5 - >= 4 % (weight), Trade secret*
EC no.	212-828-1
CAS no.	872-50-4
Index no.	606-021-00-7

- Serious eye damage/eye irritation (chapter 3.3), Cat. 2

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- Skin corrosion/irritation (C.4.4), Cat. 2

H315 Causes skin irritation
H319 Causes serious eye irritation

Trade secret statement (OSHA 1910.1200(i))

*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	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.
In case of skin contact	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.
In case of eye contact	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 swallowed	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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. NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

Most important symptoms/effects, acute and delayed

Gastrointestinal discomfort.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Foam, dry chemical, carbon dioxide or water spray

Unsuitable Extinguishing Media: Water jet

Specific hazards arising from the chemical

Hazardous Combustion Products: Thermal decomposition may produce toxic carbon and nitrogen oxides and cyanide.

Special Protective Equipment & Precautions: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize

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environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).

Unusual Fire & Explosion Hazards: None known

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protection equipment.

Environmental precautions

Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and materials for containment and cleaning up

Methods for Containment: Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.

Methods for Clean-up: Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

SECTION 7: Handling and storage

Precautions for safe handling

RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

Conditions for safe storage, including any incompatibilities

See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

Storage Temperature (Min/Max): Not determined but avoid extreme temperatures.

Product Incompatibilities: Avoid contact with strong oxidizers.

SECTION 8: Exposure controls/personal protection

Control parameters

1. N-METHYL-2-PYRROLIDONE (CAS: 872-50-4 EC: 212-828-1)

BEI - urine: 100 mg/L* (ACGIH)

*Parameters: 5-hydroxy-N-methyl-2-pyrrolidone; end of shift (as soon as possible after exposure ceases)

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Appropriate engineering controls

Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Chemical goggles or safety glasses and full-face shield.

Skin protection

Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

Body protection

Long-sleeved shirt, long pants and chemical resistant footwear plus socks.

Respiratory protection

In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	White liquid
Odor	Mild chemical odor
Odor threshold	Not determined
pH	3.5
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not flammable
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	0.986 (typical)
Solubility(ies)	Miscible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

SECTION 10: Stability and reactivity

Reactivity

No hazardous chemical reactions known.

Chemical stability

Stable under normal storage and handling conditions.

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Possibility of hazardous reactions

No potential for hazardous reactions known.

Conditions to avoid

Extreme temperatures

Incompatible materials

Strong oxidizers

Hazardous decomposition products

Thermal decomposition may produce toxic carbon and nitrogen oxides and cyanide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Likely Routes of Exposure:

Eye contact, Skin contact, Inhalation, Ingestion

Symptoms of Exposure:

Gastrointestinal discomfort

Oral LD50:

>4,800 mg/kg (Estimated based upon component data)

Dermal LD50:

>3,600 mg/kg (Estimated based upon component data)

Inhalation LC50:

>4.8 mg/L (Estimated based upon component data)

Skin corrosion/irritation

Not anticipated to causes skin irritation based upon component data.

Serious eye damage/irritation

Not anticipated to causes eye irritation based upon component data.

Respiratory or skin sensitization

Not anticipated to causes skin sensitization based upon component data.

Germ cell mutagenicity

No data available

Carcinogenicity

The EPA considers bifenthrin to be a possible human carcinogen based upon animal studies.

Reproductive toxicity

N-methyl-2-pyrrolidone is considered a developmental toxicant.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

Not anticipated to be an aspiration hazard.

Additional information

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N-methyl-2-pyrrolidone can cause vomiting, diarrhea and abdominal pain after prolonged or repeated exposure. Rats exposed to 1-methyl-2-pyrrolidone at a concentration of 1 mg/L as an aerosol for 10 days showed depletion of hematopoietic cells in the bone marrow and atrophy of the lymphoid tissues of the thymus, spleen and lymph nodes.

SECTION 12: Ecological information

Toxicity

ECOTOXICITY DATA:	The data presented below is for bifenthrin technical.
Fish Toxicity:	Rainbow trout: 96 hr LC50 = 0.00015 ppm
Bluegill sunfish: 96 hr LC50 = 0.00035 ppm	
Aquatic Invertebrate Toxicity:	No data available
Aquatic Plant Toxicity:	No data available
Avian Toxicity:	Bobwhite quail: Oral LD50 = 1,800 mg/kg
Mallard duck: Oral LD50 = 2,150 mg/kg	
Honeybee Toxicity:	Highly toxic

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13: Disposal considerations

Disposal of the product

Refer to the pesticide label for full information on disposal. Pesticide wastes are 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.

Disposal of contaminated packaging

Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.

Waste treatment

It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: Transport information

DOT (US)

Not regulated

IMDG

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, PGIII

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IATA

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, PGIII

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Labeling Requirements Under FIFRA

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:

CAUTION

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

Toxic Substances Control Act (TSCA) Inventory

This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA 311/312 Hazards

Acute (Immediate); Chronic (Delayed)

SARA 313 Components

Section 313 – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
Bifenthrin	82657-04-3	7.9%
N-methyl-2-pyrrolidone	872-50-4	1.5 – 4.0%

California Prop. 65 components

Chemical name: N-METHYL-2-PYRROLIDONE

CAS number: 872-50-4

06/15/2001 - developmental

06/15/2001 - Developmental toxicity

New Jersey Right To Know Components

Common name: BIPHENTHRIN

CAS number: 82657-04-3

New Jersey Right To Know Components

Common name: 1-METHYL-2-PYRROLIDONE

CAS number: 872-50-4

Massachusetts Right To Know Components

Chemical name: N-Methyl-2-pyrrolidone

CAS number: 872-50-4

Massachusetts Right To Know Components

Chemical name: Bifenthrin

CAS number: 82657-04-3

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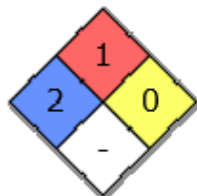
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Pennsylvania Right To Know Components

Chemical name: 2-Pyrrolidinone, 1-methyl- 2,beta-butoxyethoxyethyl Chloride

CAS number: 872-50-4

NFPA Rating



SECTION 16: Other information

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This pesticide is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift onto blooming crops if bees are visiting the treatment area.