



**VOLUNTARY PURCHASING GROUPS, INC.**

## **Safety Data Sheet Hi-Yield Bug Blaster Plus Above/Below**

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### **SECTION 1: Identification**

#### **Product identifier**

Product name	Hi-Yield Bug Blaster Plus Above/Below
Product number	32406
Brand	Hi-Yield

#### **Other means of identification**

EPA Reg. No. 53883-395-7401

#### **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

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### **SECTION 2: Hazard identification**

#### **Classification of the substance or mixture**

- Acute toxicity, inhalation (chapter 3.1), Cat. 4
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2
- Toxic to reproduction (chapter 3.7), Cat. 2

#### **GHS label elements, including precautionary statements**

#### **Pictogram**

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### Signal word

### Warning

### Hazard statement(s)

H332  
H335  
H373  
H361

Harmful if inhaled  
May cause respiratory irritation  
May cause damage to organs through prolonged or repeated exposure  
Suspected of damaging fertility or the unborn child

### Precautionary statement(s)

P280  
P264  
P260  
P271  
P201  
P202  
P304+P340  
  
P312  
P308+P313  
P314  
P403+P233  
P405  
P501

Wear protective gloves/protective clothing  
Wash hands and exposed skin thoroughly after handling.  
Do not breathe dust/mist/vapours/spray.  
Use only outdoors or in a well-ventilated area.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
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.  
Get medical advice/attention if you feel unwell.  
Store in a well ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container in accordance with Federal, state and local regulations.

regulations.

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## SECTION 3: Composition/information on ingredients

### Substances

#### Hazardous components

##### 1. Imidacloprid

Concentration 0.2 % (Weight)  
CAS no. 138261-41-3

##### 2. lambda-cyhalothrin (ISO)

Concentration 0.04 % (Weight)  
EC no. 415-130-7  
CAS no. 91465-08-6  
Index no. 607-252-00-6

##### 3. N-METHYL-2-PYRROLIDONE

Concentration < 1 %  
EC no. 212-828-1  
CAS no. 872-50-4  
Index no. 606-021-00-7

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### Trade secret statement (OSHA 1910.1200(i))

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice	Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.
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.

### Most important symptoms/effects, acute and delayed

Respiratory tract irritation. Reproductive damage and damage to organs.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

### Specific hazards arising from the chemical

None known

### Special protective actions for fire-fighters

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 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).

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protection equipment.

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### 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

Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Dike large spills using absorbent or impervious material such as clay or sand.

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

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## 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.

### 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.

Avoid contact with strong oxidizers and strong acids.

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## SECTION 8: Exposure controls/personal protection

### 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

Long-sleeved shirt, long pants and shoes plus socks.

#### Respiratory protection

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

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)

No data available.

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Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

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### SECTION 10: Stability and reactivity

#### Reactivity

No hazardous chemical reactions known.

#### Chemical stability

Stable under normal storage and handling conditions.

#### Possibility of hazardous reactions

No potential for hazardous reactions known.

#### Conditions to avoid

Contact with incompatible materials.

#### Incompatible materials

Strong oxidizers and strong acids

#### Hazardous decomposition products

Thermal decomposition may produce toxic carbon and nitrogen oxides as well as hydrogen chloride and hydrogen cyanide.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Likely Routes of Exposure: Eye contact, Skin contact, Inhalation, Ingestion

Symptoms of Exposure: Eye, skin, and/or respiratory tract irritation.

Oral LD50: >3,000 mg/kg (Estimated based upon component data)

Dermal LD50: >5,000 mg/kg (Estimated based upon component data)

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Inhalation LC50: >2.0 mg/L (Estimated based upon component data)

### **Skin corrosion/irritation**

Mildly irritating (Estimated based upon component data)

### **Serious eye damage/irritation**

Mildly irritating (Estimated based upon component data)

### **Respiratory or skin sensitization**

Non-sensitizer (Estimated based upon component data)

### **Carcinogenicity**

Imidacloprid did not cause cancer in laboratory animal studies. The U.S. EPA has given imidacloprid a Group E (evidence of non-carcinogenicity in humans). No increase in tumors was seen in rats via dietary or inhalation exposure to N-methyl-2-pyrrolidinone for two years; however, an increase in tumors was seen in rats receiving high dietary doses over a similar period. Liver tumors are not uncommon when non-genotoxic chemicals such as N-methyl-2-pyrrolidinone are tested in the mouse biosassy.

### **Reproductive toxicity**

In a two-generation reproduction study in rats, imidacloprid produced reduced mean body weight gains. No other reproductive effects were observed. N-methyl-2-pyrrolidinone may adversely affect reproduction in rats after ingestion, although fertility is unaltered.

### **Summary of evaluation of the CMR properties**

The imidacloprid mutagenicity studies, taken collectively, demonstrate that imidacloprid is not genotoxic or mutagenic. Neither in vitro nor in vivo tests on N-methyl-2-pyrrolidinone demonstrated mutagenic effects.

### **STOT-repeated exposure**

Repeated overexposure to imidacloprid, may affect heart, thyroid, blood chemistry, and liver.

Repeated overexposure to N-methyl-2-pyrrolidinone (NMP) may cause effects to eyes, skin, respiratory system, central nervous system, liver and kidneys.

### **Aspiration hazard**

Not anticipated to be an aspiration hazard.

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## **SECTION 12: Ecological information**

### **Toxicity**

The data presented below is on technical imidacloprid.

Fish Toxicity: Bluegill (*Lepomis macrochirus*): 96 hr LC50 = 105 mg/L

Rainbow trout: 96 hr LC50 = 211 mg/L

Aquatic Invertebrate Toxicity: *Daphnia magna*: 48 hr EC50 = 85 mg/L

Aquatic Plant Toxicity: No data available

Avian Toxicity: Bobwhite Quail: 8-day dietary LC50 = 1535 ppm

Bobwhite Quail: Oral LD50 = 152 mg/kg

Mallard Duck: 8-day dietary LC50 >4,797 ppm

Honeybee Toxicity: Contact LD50 = 0.078 µg/bee

### **Persistence and degradability**

Hydrolysis half-life of imidacloprid is greater than 30 days at pH 7 and 25°C.

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The aqueous photolysis half-life is less than 3 hours. The soil surface photolysis of imidacloprid has a half-life of 39 days, and in soil, the half-life ranged from 26 to 229 days.

#### **Bioaccumulative potential**

No data available.

#### **Mobility in soil**

No data available.

#### **Other adverse effects**

No data available.

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## 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.

#### **Other disposal recommendations**

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

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## SECTION 14: Transport information

#### **DOT (US)**

Not Regulated

#### **IMDG**

Not Regulated

#### **IATA**

Not Regulated

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## 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: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear long sleeved shirt, long pants, shoes and socks.

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### Toxic Substances Control Act (TSCA) Inventory

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

### SARA 302 Components

None

### SARA 311/312 Hazards

Immediate (Acute), Delayed (Chronic)

### SARA 313 Components

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: N-Methyl-2-pyrrolidinone

CAS Number: 872-50-4

Weight: <1.0%

### Massachusetts Right To Know Components

Chemical name: N-Methyl-2-pyrrolidone

CAS number: 872-50-4

### New Jersey Right To Know Components

Common name: 1-METHYL-2-PYRROLIDONE

CAS number: 872-50-4

### Pennsylvania Right To Know Components

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

CAS number: 872-50-4

### California Prop. 65 components

Chemical name: N-METHYL-2-PYRROLIDONE

CAS number: 872-50-4

06/15/2001 - developmental

### NFPA Rating



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## SECTION 16: Other information

### Further information/disclaimer

Voluntary Purchasing Groups, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Voluntary Purchasing Groups, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.