



VOLUNTARY PURCHASING GROUPS, INC.

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

SECTION 1: Identification

GHS 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
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Emergency phone number

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

- Acute toxicity, inhalation, Cat. 4
- Specific target organ toxicity, single exposure, Cat. 3
- Specific target organ toxicity, repeated exposure, Cat. 2
- Toxic to reproduction, Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

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H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H361	Suspected of damaging fertility or the unborn child

Precautionary statement(s)

P280	Wear protective gloves/protective clothing
P264	Wash hands and exposed skin thoroughly after handling.
P260	Do not breathe dust/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with Federal, state and local regulations.

regulations.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Imidacloprid (CAS no.: 138261-41-3)	0.2 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Lambda-cyhalothrin (iso) (CAS no.: 91465-08-6; EC no.: 415-130-7; Index no.: 607-252-00-6)	0.04 %
CLASSIFICATIONS: Acute toxicity, Cat. 2; Acute toxicity, Cat. 3; Acute toxicity, Cat. 4; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H301 - Toxic if swallowed; H312 - Harmful in contact with skin; H330 - Fatal if inhaled; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	
N-methyl-2-pyrrolidone (CAS no.: 872-50-4; EC no.: 212-828-1; Index no.: 606-021-00-7)	< 1 %
CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 2; Skin corrosion/irritation, Cat. 2. HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation.	

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).

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.

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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.

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).

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

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.

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

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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.

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.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Granular
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 or explosive 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.

Additional properties

Physical state	Solid
Color	
Explosive properties	No data available.
Oxidizing properties	No data available.

SECTION 10: Stability and reactivity

Reactivity

No hazardous chemical reactions known.

Chemical stability

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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.

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)

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.

Specific target organ toxicity (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

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Not anticipated to be an aspiration hazard.

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.

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.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

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.

Packaging disposal

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.

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.

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

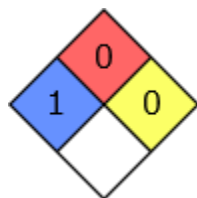
California Prop. 65 components

Chemical name: N-methyl-2-pyrrolidone

CAS number: 872-50-4

06/15/2001 - developmental

NFPA Rating



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

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