



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Vegetable & Ornamental Insect Control Granules

SECTION 1: Identification

GHS Product identifier

Product name	Hi-Yield Vegetable & Ornamental Insect Control Granules
Product number	34325
Brand	Hi-Yield

Other means of identification

EPA# 228-494-7401

Recommended use of the chemical and restrictions on use

Insecticide.

Supplier's details

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

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

General hazard statement

May cause cancer
May cause damage to organs (lungs) through prolonged or repeated exposure.

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

- Acute toxicity, dermal, Cat. 4

GHS label elements, including precautionary statements

Pictograms



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Signal word

Danger

Hazard statement(s)

H312

Harmful in contact with skin

H400

Very toxic to aquatic life

H320

Causes eye irritation

Precautionary statement(s)

P280

Wear protective gloves/protective clothing.

P302+P352

IF ON SKIN: Wash with plenty of water/...

P312

Call a POISON CENTER/doctor/.../ if you feel unwell.

P321

Specific treatment (see ... on this label).

P362+P364

Take off contaminated clothing and wash it before reuse.

P501

Dispose of contents/container to ...

P102

Keep out of reach of children.

P103

Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Bifenthrin (CAS no.: 82657-04-3)	Not specified
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

Call a poison control center or doctor for treatment advice. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur, seek medical attention immediately.

If inhaled

Move person to fresh air. If person is not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a poison control center or doctor for treatment advice.

In case of skin contact

Wash skin with soap and plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact

Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.

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If swallowed Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice.

Personal protective equipment for first-aid responders
Respiratory Protection: NIOSH/MSHA approved for protection against toxic dusts containing quartz. Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL. Protective Gloves: PVC or Neoprene. Eye Protection: Safety glasses or goggles (ANSI Z87.1 1979)
Other Protective Clothing or Equipment: Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact. Eye wash and shower facilities should be available.

Most important symptoms/effects, acute and delayed

Acute symptoms may include mild, mechanical irritation to eyes.

Indication of immediate medical attention and special treatment needed, if necessary

This product is a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water fog, CO₂, foam, dry chemical.

Specific hazards arising from the chemical

Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and firefighting equipment before reuse. Read the entire document.

Special protective actions for fire-fighters

Utilize self-contained breathing apparatus with full face piece operated in pressure demand or other positive mode. Avoid inhalation of fumes and dusts. May release irritating and toxic gases due to thermal decomposition. Products of decomposition may include CO, CO₂, hydrogen chloride, and hydrogen fluoride.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures
Respiratory Protection: NIOSH/MSHA approved for protection against toxic dusts containing quartz. Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL. Protective Gloves: PVC or Neoprene. Eye Protection: Safety glasses or goggles (ANSI Z87.1 1979) Other Protective Clothing or Equipment: Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact.

Environmental precautions

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, and surface waters.

Methods and materials for containment and cleaning up

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SMALL SPILL: While wearing rubber gloves, soak up spilled material with paper towels and discard in trash.
LARGE SPILL: Dike or contain release. Keep material out of lakes, streams, ponds, and sewer drains. Large spills should be covered to prevent dispersal. Absorb with a non-combustible absorbent such as clay, sand or soil.
Vacuum, shovel, or pump all waste material, including absorbent, into drums and label contents for disposal. Clean spill area of residues and absorbent.

SECTION 7: Handling and storage

Precautions for safe handling

Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Carefully open containers and after partial use close container tightly. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Keep from freezing. Keep pesticide in original container. Do not put into food or drink containers. Do not contaminate water, food or feed by storage or disposal.
Store in cool, dry area away from children and domestic animals.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL.

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

Eye/face protection

Safety glasses or goggles (ANSI Z87.1 1979)

Skin protection

PVC or Neoprene gloves

Body protection

Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact. Eye wash and shower facilities should be available.

Respiratory protection

NIOSH/MSHA approved for protection against toxic dusts.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Brown, tan or gray colored granular
Odor	Faint odor
Odor threshold	None known
pH	No information available.
Melting point/freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	20 – 51 pounds/cubic foot
Solubility(ies)	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.

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Decomposition temperature
Viscosity

No information available.
No information available.

Additional properties

Physical state
Color

Solid
Brown, tan or gray colored

SECTION 10: Stability and reactivity

Reactivity

No hazardous reactivity known.

Chemical stability

This material is stable under normal handling and storage conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Excessive heat. Do not store near heat or flame.

Incompatible materials

None known

Hazardous decomposition products

Under fire conditions may produce gases such as hydrogen chloride, hydrogen fluoride, carbon oxides and unidentified organic compounds.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Bifenthrin

LC50 - Fish - 0.1 µg/L - 96h

EC50 - Algae - 0.822 mg/L - 72h

EC50 - Crustacea - 0.11 µg/L - 48h

NOEC - Fish - 0.012 µg/L - 21d

NOEC - Crustacea - 0.0013 µg/L - 21d

Skin corrosion/irritation

Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

Serious eye damage/irritation

Causes moderate eye irritation.

Respiratory or skin sensitization

Not determined

Germ cell mutagenicity

No data available

Carcinogenicity

Bifenthrin has produced an increased incidence of urinary bladder tumors in male mice at the highest dose level tested. This response, however, was considered equivocal and not evidence of a clear compound related effect. The U.S. EPA has classified bifenthrin as a Class C carcinogen (a possible human carcinogen).

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None listed with ACGIH, IARC, NTP or OSHA.
See Section 2: HAZARDS IDENTIFICATION for more information.

Reproductive toxicity

In studies with animals, bifenthrin did not cause reproductive toxicity.

Specific target organ toxicity (STOT) - single exposure

Prolonged inhalation of respirable crystalline silica may be harmful. May cause damage to organs (lungs) through prolonged or repeated exposure. There are reports in the literature suggesting that excessive crystalline silica exposure may be associated with autoimmune disorders and other adverse health effects involving the kidney. In particular, the incidence of scleroderma (thickening of the skin caused by swelling and the thickening of fibrous tissue) appears to be higher in silicotic individuals. To date, the evidence does not conclusively determine a causal relationship between silica exposure and these adverse health effects.

Specific target organ toxicity (STOT) - repeated exposure

Prolonged inhalation of respirable crystalline silica may be harmful. May cause damage to organs (lungs) through prolonged or repeated exposure. There are reports in the literature suggesting that excessive crystalline silica exposure may be associated with autoimmune disorders and other adverse health effects involving the kidney. In particular, the incidence of scleroderma (thickening of the skin caused by swelling and the thickening of fibrous tissue) appears to be higher in silicotic individuals. To date, the evidence does not conclusively determine a causal relationship between silica exposure and these adverse health effects.

Aspiration hazard

Not an aspiration hazard.

SECTION 12: Ecological information

Toxicity

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, and 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. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental pounds. 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 it to drift to blooming plants if bees are visiting the treatment areas.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

DOT (US)

Not regulated

IMDG

When this product is shipped by water (non-bulk or bulk), it is regulated as follows:

PROPER SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s. (Bifenthrin)

Class: 9

UN No.: UN 3077

Packing Group: III

Marine Pollutant: Bifenthrin

IATA

Not regulated

SECTION 15: Regulatory information

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

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Bifenthrin

CAS number: 82657-04-3

TRI listing: X-reportable; CERCLA listing: unlisted; TURA-only listing: no; de minimis concentration threshold: 1 percent. Changes: Added to TURA and TRI RY1995

New Jersey Right To Know Components

Common name: Biphenthrin

CAS number: 82657-04-3

Listing note: F2-flammable 2nd deg.

Minnesota Chemicals of High Concern (Minn. Stat. 116.9401)

Chemical name: Bifenthrin (talstar)

CAS number: 82657-04-3

Hlth: endocrine system; PBT/vPvB

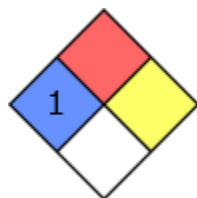
SARA 311/312 Hazards

Product name: Hi-Yield Vegetable & Ornamental Insect Control Granules

SARA 313 Components

Product name: Hi-Yield Vegetable & Ornamental Insect Control Granules

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

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