



**VOLUNTARY PURCHASING GROUPS, INC.**

## **Safety Data Sheet Hi-Yield Indoor/Outdoor Broad Use Insecticide**

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### **SECTION 1: Identification**

#### **GHS Product identifier**

Product name Hi-Yield Indoor/Outdoor Broad Use Insecticide  
Product number 32008; 32009; 32010  
Brand Hi-Yield

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

EPA Reg. No. 7401-455

#### **Recommended use of the chemical and restrictions on use**

Recommended: Insecticide, termiticide.  
Against: Activities contrary to label recommendation.

#### **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

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

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

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

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

#### **Hazard statement(s)**

H313 May be harmful in contact with skin  
H333 May be harmful if inhaled  
H303 May be harmful if swallowed  
H320 Causes eye irritation

#### **Precautionary statement(s)**

P102 Keep out of reach of children.  
P103 Read label before use.

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### SECTION 3: Composition/information on ingredients

#### Mixtures

#### Hazardous components

Component	Concentration
<b>Permethrin (CAS no.: 52645-53-1; EC no.: 258-067-9; Index no.: 613-058-00-2)</b>	<b>10 %</b>
CLASSIFICATIONS: Acute toxicity, Cat. 4; Skin sensitization, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H317 - May cause an allergic skin reaction; H332 - Harmful if inhaled; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	
<b>Solvent naphtha (petroleum), heavy arom (CAS no.: 64742-94-5)</b>	<b>15 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

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### 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, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Call 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 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Personal protective equipment for first-aid responders	Use personal protective equipment.

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

No data available.

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

Note to Physician And Veterinarian: Do not administer or instill milk, cream or other substances containing vegetable or animal fats which enhance absorption of lipophilic substances. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

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### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Water. Foam.

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### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

### Special protective actions for fire-fighters

Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run off. Full fire fighting turn-out gear (Bunker gear).

### Further information

No data available.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with the skin and the eyes. Remove all sources of ignition. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

### Environmental precautions

Highly toxic to fish, other water organisms and bees. Keep out of waterways.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Ground and bond containers when transferring material. Sweep up and shovel into suitable containers for disposal.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Do not eat, drink or smoke when using this product. Remove all sources of ignition. Avoid contact with skin and eyes. Keep away from open flames, hot surfaces and sources of ignition. Check that all equipment is properly bonded and grounded. Use spark resistant tools. Remove and wash contaminated clothing before re-use.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Static electricity may accumulate when transferring material. All containers must be bonded and grounded during filling and emptying operations.

Incompatible Materials: Strong Oxidizing Agents.

### Specific end use(s)

Residential use insecticide

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### 1. Solvent naphtha (petroleum), heavy arom (CAS: 64742-94-5)

TWA: TWA: 100 ppm (ACGIH)

TWA: TWA: 500 ppm TWA:2900 mg/m<sup>3</sup>, (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m, 3 (OSHA)

### Appropriate engineering controls

Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

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

#### Eye/face protection

Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Goggles. If splashes are likely to occur, wear Face-shield.

#### Skin protection

Wear protective gloves/clothing. Chemical resistant footwear plus socks.

#### Respiratory protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

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## SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Liquid
Odor	Petroleum
Odor threshold	No data available.
pH	6
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	111 °F
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	Liquid
Color	Not known
Explosive properties	No data available.
Oxidizing properties	No data available.

#### Further safety characteristics (supplemental)

No data available.

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## SECTION 10: Stability and reactivity

#### Reactivity

Product will not undergo polymerization

#### Chemical stability

Stable, however may decompose if heated.

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### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Heat, flames and sparks. Avoid temperatures above 150°F.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Oxides of hydrogen and carbon.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Acute Oral LD50 (Rat): 500 – 2,000 mg/kg  
Acute Dermal LD50 (Rabbit): >5,000 mg/kg  
Acute Inhalation LC50 (Rat): >2.08 mg/L  
Eye Irritation: Mildly irritating  
Skin Irritation: Moderately irritating  
Dermal Sensitization: Contact sensitizer

#### Skin corrosion/irritation

Prolonged or repeated skin contact may cause irritation. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.

#### Serious eye damage/irritation

Mildly irritating to the eyes. Degree of injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.

#### Respiratory or skin sensitization

May be irritating to respiratory tract.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

EPA classified permethrin as “Likely to be Carcinogenic to Humans” by the oral route. This classification was based on two reproducible benign tumor types (lung and liver) in the mouse, equivocal evidence of carcinogenicity in Long-Evans rats, and supporting structural activity relationships (SAR) information. (EPA 2009 Permethrin RED)

#### Reproductive toxicity

No data available.

#### Summary of evaluation of the CMR properties

No data available.

#### Specific target organ toxicity (STOT) - single exposure

No data available.

#### Specific target organ toxicity (STOT) - repeated exposure

No data available.

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### Aspiration hazard

No data available.

### Additional information

Permethrin - has low mammalian toxicity and virtually no allergic side effects and is not a skin or eye irritant. However, prolonged exposure might result in parathesia (tingling sensation), which is reversible within 12 hours. Exposure to permethrin is via dermal contact and inhalation. In repeat patch tests in humans, dermal applications of permethrin at 1% for up to 9 days did not result in irritation or sensitization. The clinical manifestations of inhalation exposure are confined to the upper respiratory tract and include rhinitis, sneezing, cough, and scratchy throat.

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## SECTION 12: Ecological information

### Toxicity

Permethrin in soil is stable over a wide range of pH values when applied at agricultural use rates. Permethrin has moderate rate of degradation in soil, At termicidal use rates, permethrin degrades at a slower rate which is governed by soil characteristics such as soil type, microbial population concentration in soil and aerobic conditions of the soil. Due to its high affinity for organic matter, there is little potential for movement in soil or entry into ground water. Permethrin has a low Pow of 6.1 but a low potential to bioconcentrate (BCF=500) due to the ease with which it is metabolized.

Extremely toxic to fish = 0.05 ug/L to 315 ug/L

Extremely toxic to aquatic arthropods LC50 = 0.02 ug/L to 7.6 ug/L

Marine species are often more sensitive than freshwater species. Bacteria, algae, mollusks and amphibians are much more tolerant of permethrin than the fish and arthropods. Care should be taken to avoid contamination of the aquatic environment. Permethrin is slightly toxic to birds and oral L50 values are greater than 3,600 mg/kg. Longer dietary studies showed that concentrations of up to 500 ppm in the diet had no effect on bird reproduction.

Permethrin is extremely toxic to fish, aquatic invertebrates and honey bees.

rainbow trout 96 hr LC50 = 2.5 ug/L

Bluegill sunfish 95 hr LC50 = 1.8 ug/L

Japanese quail LD50 = 23,000 mg/kg

Mallard duck LD50 = 11,257 mg/kg

### Persistence and degradability

No data available.

### Bioaccumulative potential

Permethrin Technical:

Log Pow: 6.5

### Mobility in soil

No data available.

### Results of PBT and vPvB assessment

No data available.

### Other adverse effects

No data available.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the

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nearest EPA Regional Office for guidance.

### Packaging disposal

Refer to product label.

### Waste treatment

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or 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.

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## SECTION 14: Transport information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

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

#### New Jersey Right To Know Components

Common name: Permethrin

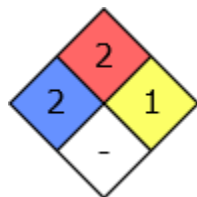
CAS number: 52645-53-1

#### SARA 313 Components

Permethrin technical - 52645-53-1

Threshold Value: 1.0

### NFPA Rating



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## SECTION 16: Other information

No data available.

### Further information/disclaimer

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