



# VOLUNTARY PURCHASING GROUPS, INC.

## Safety Data Sheet

### Hi-Yield® 38 Plus Turf, Termite & Ornamental Insect Control

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## SECTION 1: Identification

### Product identifier

Product name Hi-Yield® 38 Plus Turf, Termite & Ornamental Insect Control  
Product number 31332  
Substance name EPA Reg. No. 7401-466

### 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(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

#### GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Sensitization, skin (chapter 3.4), Cat. 1
- Germ cell mutagenicity (chapter 3.5), Cat. 1B
- Carcinogenicity (chapter 3.6), Cat. 1B
- Aspiration hazard (chapter 3.10), Cat. 1

### GHS label elements, including precautionary statements

#### Pictogram



#### Signal word

Danger

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**Hazard statement(s)**

H317	May cause an allergic skin reaction
H340	May cause genetic defects
H350	May cause cancer
H304	May be fatal if swallowed and enters airways

**Precautionary statement(s)**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P321	Specific treatment (see ... on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an approved waste disposal plant.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P102	Keep out of reach of children.

**Other hazards which do not result in classification**

Very toxic to aquatic life with long lasting effects  
Very toxic to aquatic life

**Statement regarding ingredients of unknown toxicity (OSHA)**

No data available.

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### **SECTION 3: Composition/information on ingredients**

**Substances**

Substance name: EPA Reg. No. 7401-466

**Hazardous components**

Component	Concentration
Permethrin (CAS no.: 52645-53-1; EC no.: 258-067-9; Index no.: 613-058-00-2)	38 % (Weight)

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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, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a poison control center or doctor for treatment advice.

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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	
	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

No data available.

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

Treat symptomatically. Treatment should include monitoring for the development of hypersensitivity reactions with respiratory distress. For paresthesia, Vitamin E topical application is highly effective.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

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

### Specific hazards arising from the chemical

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

### Special protective actions for fire-fighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective 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

Prevent further leakage or spillage if safe to do so. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

### Methods and materials for containment and cleaning up

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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)**

No data available.

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### SECTION 8: Exposure controls/personal protection

#### **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.

#### **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.

##### **Body protection**

No data available.

##### **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.

##### **Thermal hazards**

No data available.

##### **Environmental exposure controls**

No data available.

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## **SECTION 9: Physical and chemical properties**

### **Information on basic physical and chemical properties**

Appearance/form	Liquid
Odor	Petroleum
Odor threshold	No data available.
pH	4-6
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 limits	No data available.
Upper/lower 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.
Explosive properties	No data available.
Oxidizing properties	No data available.

### **Other safety information**

No data available.

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## **SECTION 10: Stability and reactivity**

### **Reactivity**

No data available.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

None under normal processing.

### **Conditions to avoid**

Heat, flames and sparks.

### **Incompatible materials**

Strong oxidizing agents.

### **Hazardous decomposition products**

Carbon oxides.

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## **SECTION 11: Toxicological information**

### **Information on toxicological effects**

#### **Skin corrosion/irritation**

May be harmful if absorbed through the skin.

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**Serious eye damage/irritation**  
Moderately irritating to the eyes.

**Respiratory or skin sensitization**  
HARMFUL IF INHALED.

**Germ cell mutagenicity**  
No data available.

**Carcinogenicity**  
Permethrin technical  
-IARC: Group 3

**Reproductive toxicity**  
No data available.

**Summary of evaluation of the CMR properties**  
No data available.

**STOT-single exposure**  
No data available.

**STOT-repeated exposure**  
kidney, Respiratory System, EYES, skin, Central Nervous System (CNS)

**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 paresthesia (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.

Extrememly 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

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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 of contaminated packaging**  
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)**

UN Number: UN1993  
Proper Shipping Name: Flammable liquid, n.o.s (Hydrocarbon)  
Hazard Class: 3  
Packing Group: PG III  
Marine pollutant: Marine Pollutant. (Permethrin).

**IMDG**

UN Number: UN1993  
Proper Shipping Name: Flammable liquid, n.o.s (Hydrocarbon)  
Hazard Class: 3  
Packing Group: PG III  
EmS No.: F-E, S-E  
Marine pollutant: Marine Pollutant. (Permethrin).

**IATA**

UN Number: UN1993  
Proper Shipping Name: Flammable liquid, n.o.s (Hydrocarbon)  
Hazard Class: 3  
Packing Group: PG III  
Description: Marine Pollutant. (Permethrin).

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**SECTION 15: Regulatory information**

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

**Massachusetts Right To Know Components**

Chemical name: 3-(2,2-Dichloroethyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxy-phenyl)methyl ester  
CAS number: 52645-53-1

**New Jersey Right To Know Components**

Common name: PERMETHRIN  
CAS number: 52645-53-1

**SARA 313 Components**

Permethrin technical - 52645-53-1  
Treshold Value: 1.0

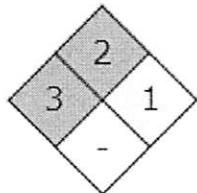
**SARA 311/312 Hazards**

Acute health hazard: yes  
Chronic health hazard: NO  
Fire hazard: yes  
Sudden release of pressure hazard: No  
Reactive Hazard: yes

**CERCLA**

SARA Product RQ: 0

**NFPA Rating**



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**SECTION 16: Other information**

Voluntary Purchasing Groups, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.