



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield 38 Plus Turf, Termite & Ornamental Insect Control

SECTION 1: Identification

GHS Product identifier

Product name	Hi-Yield 38 Plus Turf, Termite & Ornamental Insect Control
Product number	31330; 31331; 31332; 31332Q; 31333
Brand	Hi-Yield
Substance name	EPA Reg. No. 7401-466

Other means of identification

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
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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

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

- Sensitization, skin, Cat. 1
- Germ cell mutagenicity, Cat. 1B
- Carcinogenicity, Cat. 1B
- Aspiration hazard, Cat. 1

GHS label elements, including precautionary statements

Pictograms



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Signal word

Danger

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.
P103 Read label before use.

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

No data available.

SECTION 3: Composition/information on ingredients

Mixtures

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 %
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.	

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

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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 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.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Carbon dioxide (CO₂). Water. Foam.

Specific hazards arising from the chemical

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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.

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

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.

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.

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.

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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.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	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 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	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

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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.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Permethrin - has low mammalian toxicity and virtually no allergic side effects and is not a skin or eye irritant.

Skin corrosion/irritation

May be harmful if absorbed through the skin.

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.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (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 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

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Inhalation exposure are confined to the upper respiratory tract and include rhinitis, sneezing, cough, and scratchy throat.

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 termiticidal 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 LD50 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.

SECTION 13: Disposal considerations

Disposal methods

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.

SECTION 14: Transport information

DOT (US)

UN Number: UN1993

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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).

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-Dichloroethenyl)-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

Threshold Value: 1.0

SARA 311/312 Hazards

Acute health hazard: yes

Chronic health hazard: NO

Fire hazard: yes

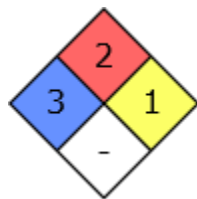
Sudden release of pressure hazard: No

Reactive Hazard: yes

CERCLA

SARA Product RQ: 0

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

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