

MATERIAL SAFETY DATA SHEET



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

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Effective Date: May 23, 2012

Hi-Yield® Garden, Pet & Livestock Dust

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Garden, Pet & Livestock Dust
CHEMICAL FAMILY: Pyrethroid
CHEMICAL NAME: Mixture – Active Ingredient: Permethrin
FORMULA: Mixture

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. CHEMICAL IDENTIFICATIONS:

| CHEMICAL COMPONENT | CAS NUMBER | % (TYPICAL) | TLV (UNITS) | PEL (UNITS) |
|--------------------|------------|-------------|---------------|---------------|
| Permethrin [1] | 52645-53-1 | 0.25 | None assigned | None assigned |
| Other Ingredients | N/A | 0.75 | None assigned | None assigned |

[1] NOTE: This is a toxic chemical and is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration.

TLV: Threshold Limit Value recommended by the American Conference of Governmental Industrial Hygienists.

3. PHYSICAL DATA:

| | | |
|---|---|--|
| BOILING POINT (°F) Not applicable | BULK DENSITY Compacted = appr. 61 lbs/cu ft | VAPOR PRESSURE (mm Hg) Not applicable |
| PERCENT VOLATILE BY VOLUME (%) Not applicable | VAPOR DENSITY (AIR=1) Not applicable | EVAPORATION RATE (ethyl ether=1) Not applicable |
| SOLUBILITY IN WATER Disperses with water | REACTIVITY IN WATER Will not evolve flammable or toxic gases | |
| APPEARANCE AND ODOR White to tan powder, very faint petroleum distillate odor. | | |

4. FIRE AND EXPLOSION DATA:

| | | |
|---|---|--|
| FLASH POINT (°F) Not determined | FLAMMABLE LIMITS IN AIR (% by volume) Not determined | |
| EXTINGUISHING MEDIA Foam, carbon dioxide or dry chemical. Soft stream water fog only if necessary. | AUTO IGNITION TEMPERATURE Not determined | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS Slightly combustible. Avoid dispersion of dust in air to reduce potential explosion hazard. | | |

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SPECIAL FIRE FIGHTING PROCEDURES

Employees and Local Residents: Evacuate residents who are downwind of fire. Prevent unauthorized entry to fire area. Have medical check made of employees that may have been exposed to fumes or other contamination of pesticides. Fire Fighting Authorities: Wear protective clothing over the entire body including rubber boots, hat and coat, and avoid contact with toxic fumes or smoke. Self-contained breathing equipment is essential for those exposed to fumes or smoke. Be immediately relieved from duty and checked for possible poisoning if exposed to fumes or smoke without adequate protection. Wash thoroughly and immediately with large volumes of soap and water if contacted by pesticides. Any person heavily exposed to pesticides should be examined by a physician immediately without waiting for symptoms to occur. Avoid smoking, drinking, or eating while fire fighting so as not to ingest toxic substances. Monitor any water runoff; dike surrounding area.

5. HEALTH INFORMATION:

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Inhalation, ingestion

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

Includes diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity. Contact with this product has rarely produced skin sensations such as numbing, burning and tingling. These skin sensations are reversible and usually subside within 12 hours. Can cause moderate eye irritation.

(2) CHRONIC OVEREXPOSURE

In studies with laboratory animals, permethrin did not cause reproductive toxicity or teratogenicity. Analysis of chronic feeding studies in both mice and rats with permethrin resulted in the conclusion that permethrin's potential for induction of oncogenicity in experimental animals is low and that the likelihood of oncogenic effects in humans is nonexistent or extremely low. Long-term feeding studies in animals resulted in increased liver and kidney weights, induction of liver microsomal drug metabolizing enzyme system and histopathological changes in the lungs and liver. An overall absence of genotoxicity has been demonstrated in mutagenicity testing for permethrin.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of the nervous system. Respiratory disorders.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP

YES NO

IARC

YES NO

OSHA

YES NO

OTHER EXPOSURE LIMITS

None

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove 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. **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. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. **IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

6. REACTIVITY DATA:

STABILITY

Unstable Stable

CONDITIONS TO AVOID

Does not apply

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|---|---|
| INCOMPATIBILITY (Materials to Avoid) Excessive heat and fire. Avoid contact with alkalis materials. | |
| HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, chlorine, hydrogen chloride, sulfur dioxide. | |
| HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur | CONDITIONS TO AVOID Excessive heat and fire. |

7. SPILL OR LEAK PROCEDURES:

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| STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED If possible, collect and reuse material; otherwise, cover with sweeping compound and sweep up with as little dusting as possible. Put sweeping in a waste container for disposal. Flush area with soapy water. Do not allow rinse water to contaminate water supplies or sewers. Clean-up of spill may require personal protective equipment to prevent inhalation an eye or skin contact. See section 8. |
| WASTE DISPOSAL METHOD Bury in approved landfill site. Mix with equal amounts of quicklime when burying or wet thoroughly with strong caustic soda before covering with soil. Dispose of in accordance with Federal, State, and local regulations. |

8. PERSONAL PROTECTION INFORMATION:

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| RESPIRATORY PROTECTION NIOSH/MSHA approved for protection against pesticide dusts. |
| VENTILATION General or local exhaust to minimize airborne dust concentrations. |
| PROTECTIVE GLOVES Rubber, plastic, PVC or other impervious material. |
| EYE PROTECTION Goggles |
| OTHER PROTECTIVE CLOTHING OR EQUIPMENT Long-sleeved work clothing and hat, eye bath and safety shower. |

9. SPECIAL PRECAUTIONS:

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| PRECAUTIONS TO BE TAKEN IN HANDLING & STORING Store indoors in a cool place. Store in original containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. |
| OTHER PRECAUTIONS In case of prolonged exposure, showers after work and daily changes of clothing is advisable. Permethrin is extremely toxic to fish and aquatic invertebrates. Do not apply to any body of water. Do not contaminate water when disposing of equipment washwaters. |

10. TRANSPORT INFORMTATION:

DEPARTMENT OF TRANSPORTATION (DOT) CLASSIFICATION: Not regulated by DOT in our non-bulk package when shipped by highway or railroad.

US SURFACE FREIGHT CLASS: Insecticides, NOI, other than Poison, NMFC item 102120

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INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG) CLASSIFICATION: 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. (Permethrin)

Class: 9
UN No.: UN 3077
Packing Group: III
Marine Pollutant: Permethrin

11. OTHER INFORMATION:

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.