

**Material
Safety
Data Sheet**

Hi-Yield Garden, Pet & Livestock Dust

Section I - Chemical Product & Company Identification

Name: Voluntary Purchasing Groups, Inc. Box 460, Bonham, TX 75418

Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec)

For additional information Contact: Product Manager or Chemtrec

Date Prepared: 03-14-03

Common Name (Used on Label):
Hi-Yield Garden, Pet & Livestock Dust

Chemical Family: Pyrethroid

Chemical Name: Mixture - active ingredient, permethrin

Formula: Mixture - Does not apply

Trade Name & Synonyms: Hi-Yield Garden, Pet & Livestock Dust

Section II - Composition/Information on Ingredients

HAZARDOUS 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.

Section III - 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 gasses	
APPEARANCE AND ODOR: White to tan powder, very faint petroleum distillate odor		

Section IV - 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.	
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.	

Section V - 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: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IARC: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	OSHA: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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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 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.

Section VI - Reactivity Data

STABILITY: <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> 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.
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Section VII - Spill or Leak Procedures

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 and eye or skin contact. See section VIII.

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.

Section VIII - Personal Protection Information

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.

Section IX - Special Precautions

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.

Section X - 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.