

MATERIAL SAFETY DATA SHEET



For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night: 1-800-424-9300
For Medical Emergencies Only, Call: 1-877-325-1840

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

American Brand® Permethrin Granules

Effective Date: May 11, 2009

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: American Brand® Permethrin Granules
EPA No.: 55431-4-7401

COMPANY IDENTIFICATION:

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

2. INGREDIENTS:

Permethrin 0.25%	CAS Number: 52645-53-1
	OSHA PEL: Not Listed
	ACIGH TLV: Not Listed
CHEMICAL NAME:	(3-phenoxyphenyl) methyl-cis, trans-3-(2,2-dichloroethylenyl) -2,2 dimethylcyclopropanecarboxylate)
CHEMICAL FAMILY:	Synthetic pyrethroid

3. PHYSICAL DATA:

Solubility in Water:	0.2 mg/L at 20°C
Bulk Density:	35-40 lbs./cu. ft.
pH:	5.2
Molecular Weight:	391.3
Molecular Formula:	C ₂₁ H ₂₀ C ₁₂ O ₃
Vapor Pressure:	Negligible
% Volatile:	N/A
Appearance:	Tan to Gray Granule
Odor:	No appreciable odor

4. FIRST AID MEASURES:

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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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 five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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 poison control center or doctor for further treatment advice.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point (Method):	N/A
Flammable Limits:	N/A
Extinguishing Media:	Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.
Fire and Explosion Hazards:	Can burn in fire. Irritating and toxic gases may be generated by thermal decomposition or combustion.
Fire Fighting Equipment:	Self-contained breathing apparatus with full facepiece. Full firefighting turn-out gear (Bunker gear).

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Fire Fighting Instructions: 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 excess water run off.

Hazardous Combustion Products: Carbon monoxide and/or carbon dioxide. Chlorine and hydrogen chloride may be formed.

6. STABILITY & REACTIVITY DATA:

Stability: Stable, however may decompose if heated.
Conditions to Avoid: Avoid excessive temperatures.
Incompatibility with Other Materials: Oxidizers
Hazardous Decomposition Products: Thermal decomposition may release carbon dioxide, carbon monoxide, sulfur oxides, halogen, halogen acids and possible trace amounts of carbonyl halide.

7. ECOLOGICAL INFORMATION:

Environmental Summary: This product is extremely toxic to fish and aquatic invertebrates. It is moderately toxic to birds, and other wildlife. Do not apply directly to water, or to areas where surface water is present. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.
Fish Toxicity (Technical): 96 hour LC₅₀, Rainbow trout – 2.5 µg/L
96 hour LC₅₀, Bluegill – 1.8 µg/L
Avian Toxicity (Technical): Oral LD₅₀, Japanese quail - > 13,500 mg/Kg
Bee Toxicity (Technical): Highly toxic.

8. DISPOSAL CONSIDERATIONS:

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Refer to product label.
Accidental Release Measures: Clean up spills immediately, observing precautions in Section 8 of this document.
SMALL SPILL: Vacuum or sweep up material and place in a container for reuse or disposal.
LARGE SPILL: Same as for a small spill. After removal flush and neutralize contaminated area thoroughly with water and a diluted solution of soda ash or bleach. Pick up wash liquid with absorbent and place in chemical waste container for disposal. This material is
a water pollutant and should be prevented from entering sewage and drainage systems
and bodies of water.

9. HANDLING & STORAGE:

Handling: Use only in a well ventilated area.
Storage: Store product in its original labeled container in a cool, dry locked place out of reach of children.

10. HEALTH HAZARD DATA:

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Emergency Overview:	Light brown granules. Avoid breathing dust. Avoid contact with eyes. Keep out of reach of children.
Potential Health Hazards:	
Eyes:	Mildly irritating to the eyes.
Skin:	May cause skin irritation, numbing, burning and tingling.
Inhalation:	See physician if irritation develops.
Ingestion:	May be harmful if swallowed.
Environmental Hazards:	Extremely toxic to fish, other water organisms and bees. Keep out of waterways.

11. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Exposure Limits (8-HR TWA): (Refer to Section 7)

Engineering Controls: Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment (PPE):

Eye Protection: Safety glasses.

Clothing: Long sleeved shirt and long pants. Shoes plus socks.

Gloves: Waterproof gloves.

Respirator: When handling in enclosed areas where exposure limits may be exceeded, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Follow manufacture's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

12. TOXICOLOGICAL INFORMATION:

Acute Toxicity:

Oral LD₅₀ (rat): >5,000 mg/Kg

Dermal LD₅₀ (rat): >2,000 mg/Kg

Inhalation LC₅₀ (rat): N/A

Eye Irritation (rabbit): Slight

Skin Irritation (rabbit): Very Slight

Sensitization (guinea pig): Possible sensitizer

Medical Conditions Aggravated

By Exposure: None known.

Carcinogen Status:

OSHA: Not listed.

NTP: Not listed.

IARC: Not listed.

Mutagenic Data: Not evidence of effects during *in vivo* or *in vitro* studies.

Additional Data: Not known to exhibit reproductive or birth defects. Repeated or prolonged low level exposure may cause sensitization to subsequent exposures.

13. TRANSPOT INFORMATION:

DOT Shipping Description: Agricultural Insecticide, Solid, N.O.I.B.N.

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DOT Hazard Class: N/A
UN Number: N/A
DOT Packing Group: N/A
DOT Primary/Secondary Label: None required.
DOT Primary/Secondary Placard: None required.
DOT Emergency Response Guide: N/A

14. REGULATORY INFORMATION:

FIFRA: All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide

OSHA Hazard Communication Standard Status: Regulated
CERCLA Reportable Quantity: N/A

SARA Title III Status:
302 Extremely Hazardous Substance: No
311/312 Hazard Categories: Immediate
313 Toxic Chemicals: Permethrin (52645-53-1)
California Prop 65 Status: Not listed

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