1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Kill-A-Bug II Dust
EPA No.: 7401-452
CHEMICAL FORMULA: Mixture, active ingredient-Deltamethrin

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

2. COMPOSITION / INFORMATION ON INGREDIENTS:

<table>
<thead>
<tr>
<th>Ingredient Name [CAS#] [Chemical Name]</th>
<th>Weight %</th>
<th>Exposure Limit</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deltamethrin (52918-63-5) *</td>
<td>0.05</td>
<td>TWA-TEL: 45 µg/m3</td>
<td>Mfg.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL (15 minutes): 100 µg/m3</td>
<td>Mfg.</td>
</tr>
<tr>
<td>Synthetic Pyrethroid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crystaline Silica (14806-60-7)</td>
<td>&lt; 5</td>
<td>10 mg/m3</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m3</td>
<td>OSHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m3</td>
<td>OSHA</td>
</tr>
</tbody>
</table>

** Active Ingredient

** Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identity is withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling (877) 315-9819 (within the United States) or (651) 632-6184 (outside the United States) at any time.

Respirable silica (quarts is not expected to be present in the dust from this product at levels exceeding 1.0%. If silica levels above 1.0% are present, the TLV value is 0.1 mg of respirable silica per cubic meter.

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

CAUTION:

- HARMFUL IF ABSORBED THROUGH THE SKIN.
- AVOID CONTACT WITH SKIN, EYES OR CLOTHING.
- CONTACT WITH PRODUCT MAY RESULT IN TRANSIENT TINGLING AND REDDENING OF THE SKIN.
- THIS PRODUCT IS EXTREMELY TOXIC TO FISH AND AQUATIC INVERTEBRATES.

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): Inhalation, ingestion and skin contact.

Signs and Symptoms of Systemic Effects: May cause irritation of the eyes, nose and throat.
IMMEDIATE EFFECTS
Eye: May cause moderate irritation

Skin: Harmful if absorbed. Skin contact may result in transient tingling and reddening of the skin.

Ingestion: Harmful if swallowed.

Inhalation: Harmful if inhaled.

DELAYED/LONG TERM EFFECTS
Chronic Toxicity (Including Cancer):
  Prolonged breathing of excessive dust may affect lung function. This product contains small amounts of crystalline silica. Inhalable crystalline silica from occupational sources is considered a human carcinogen.

Silica: Product contains greater than 0.1% total crystalline silica.

Inhalable crystalline silica fraction unknown. The International Agency for Research on Cancer (IARC) believes there is sufficient evidence that crystalline silica is carcinogenic to humans if it is inhaled in the form of quarts of cristobalite from occupational sources. IARC notes that carcinogenicity was not detected in all industrial circumstances studied and that the carcinogenicity of crystalline silica may be dependent on inherent characteristics of the silica, or an external factors affecting its biological activity or on the distribution of its polymorphs (quartz, cristobalite).

Naturally occurring minerals invariably contain a trace of quantities of materials cited in the California Safe Drinking and Toxic Enforcement Act. In addition to crystalline silica, trace quantities of lead and arsenic may be detected. Test results for these products show that lead and arsenic, if present, are at concentrations of less than 5 PPM each.

CARCINOGENICITY: NTP: Yes  IARC: Yes  OSHA: Yes

4. FIRST AID MEASURES:

EMERGENCY NUMBER
Within the United States (877) 315-9819
Outside the United States (651) 632-6184

Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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.

Ingestion: 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 of doctor. Do not give anything by mouth to an unconscious person.

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.

Note to physician: This product contains 0.05% synthetic pyrethroid pesticide. Do not administer milk, cream or other substances containing vegetable or animal fats. These only enhance absorption of lipophilic substances.

5. FIRE FIGHTING MEASURES:

FLASH POINT: N/A  METHOD: N/A  AUTOIGNITION: N/A
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam or water spray.

FLAMMABLE LIMITS (% by volume in air):
  Lower: N/A  Upper: N/A

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

HAZARDOUS COMBUSTION PRODUCTS: Complete combustion produces oxides of carbon, nitrogen and water.

6. ACCIDENTAL RELEASE MEASURES:

EMERGENCY PHONE NUMBER
CHEMTREC (800) 262-8200

OBSERVE PRECAUTIONS IN SECTION 8:

PERSONAL PROTECTION
Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. Avoid creation of dust.

GENERAL AND DISPOSAL: Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the adverse effect of the spill. Ensure that the disposal is in compliance with all Federal, Provincial, and local regulations (See Section 13 for applicable RCRA Number). Refer to Section 15 for applicable Reportable Quantity (RQ) and other regulatory requirements.

LAND SPILL OR LEAK:
  CONTAINMENT: Prevent spread of dust. Quantity of spill may be limited by packaging design.
  CLEANUP: Sweep (or vacuum) up and dispose of with chemical waste.

FOR SPILLS IN WATER:
  CONTAINMENT: Product is hydrophobic and will tend to float on water. Significant spreading may be preventable by the use of booms.
  CLEANUP: Remove contaminated water if possible and dispose of as chemical waste.

7. HANDLING AND STORAGE:

HANDLING PRECAUTIONS: May be harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

STORAGE PRECAUTIONS: Store in original container in a cool, dry, locked place out of reach of children.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION:

EYE PROTECTION: Not required with normal use, unless label directs otherwise.
RESPIRATION/VENTILATION: Use in a well ventilated area. Vacate premise during use and ventilate before reoccupying.

SKIN PROTECTION: Not required with normal use, unless label directs otherwise.

OTHER/GENERAL PROTECTION: Avoid contamination of feed and foodstuffs. Wash all food processing surfaces after treatment. Do not use in facility when in operation. Remove pets, birds and cover fish aquariums before spraying.

HYGIENE MEASURES: Wash with soap and water after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: White powder.
ODOR: Very faint, indeterminate to chalk-like odor.
MELTING POINT: N/A
DENSITY: 55.5 lbs/ft³ (fluffed)
          105.4 lbs/ft³ (compacted)
SOLUBILITY IN WATER: Insoluble
SOLUBILITY IN SOLVENTS/OIL (SPECIFIED): Negligible
PHYSICAL STATE: Solid

10. STABILITY AND REACTIVITY:

CHEMICAL STABILITY: Stable
INCOMPATIBILITY: Reacts with acids to liberate CO2
HAZARDOUS DECOMPOSITION PRODUCTS: May include toxic and corrosive fumes of bromide and toxic oxides of Nitrogen and carbon.
OXIDATION/REDUCTION PROPERTIES: N/A
HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION:

ACUTE (Product Specific Information)

Eye Irritation (rabbit): Minimal irritant.
Skin Irritation (rabbit): Slight irritant
Dermal Toxicity LD₅₀ (rabbit): >5,000 mg/kg
Oral Toxicity LD₅₀ (rat): >5,000 mg/kg
Inhalation Toxicity LC₅₀ (rat): >26.1 mg/kg
Skin Sensitization (guinea pig): Non-sensitizer

Note: For transport purposes (49 CFR 173.132), the calculated 1-hour LC₅₀ (Rate) is > 100 mg/L.

TOXICITY OF ACTIVE INGREDIENT – DELTAMETHRIN:

Acute:
Eye irritation (rabbit): Slight irritant.
Skin irritation (rabbit): Non-irritating.
Dermal Toxicity LD_{50} (rabbit): >2,000 mg/kg
Oral Toxicity LD_{50} (rat): >66.7 mg/kg
Inhalation Toxicity LC_{50} (rat): >2.2 mg/kg
Skin Sensitization (guinea pig): Non-sensitizer

CHRONIC/CARCINOGENICITY:
General neurological symptoms were exhibited in studies with rats, mice and dogs. These symptoms include unsteadiness, abnormal gait, tremors and liquid feces. No histopathologic findings were observed except some signs of slight hepatotoxicity in mice. No Observable Effect Levels hepatotoxicity in mice. No Observable Effect Levels (NOELs) were 1 mg/kg/day in the 2 year rat and dog studies. The NOEL for the 2-year mouse study was approximately 12 mg/kg/day. Deltamethrin was not carcinogenic in rates and mice.

NEUROTOXICITY:
Deltamethrin does not inhibit acetylcholinesterase. Neurolobehavioral effects including unsteadiness, excessive salivation, vomiting, liquid feces, uncoordinated movement, tremors, spasmodic convulsions which are typically related to Central Nervous System (CNS) stimulation, were observed in some studies. The NOEL for these studies was 1 mg/kg/day or higher.

REPRODUCTIVE/DEVELOPMENTAL:
No developmental effects were observed in studies with rats or rabbits in the absence of maternal toxicity. The developmental NOEL for the rat study was 3.3 mg/kg/day while the developmental NOEL for rabbits was 25 mg/kg/day. Reproduction studies with rats produced clinical signs, reduced body weight gain and mortality in parents and offspring at very high dosages. The NOEL for the parents and offspring was 80 ppm or approximately 4 to 12 mg/kg/day for adults and 18 to 44 mg/kg/day for offspring.

MUTAGENICITY:
No evidence of genotoxicity was observed in a battery of in vitro and in vivo studies.

12. ECOLOGICAL INFORMATION:
This product is highly toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

THE FOLLOWING DATA WERE DEVELOPED WITH:
Technical Deltamethrin
The active ingredient Deltamethrin is highly toxic to fish and other aquatic species, however, the toxicity to avian species is relatively low

AVIAN
Bobwhite Quail (LD_{50}): >2250 mg/kg
Bobwhite Quail (dietary LC_{50}): >5620 ppm
Mallard Duck (dietary LC_{50}): >8039 ppm
Quail Reproduction (repro NOEL): 450 ppm
Duck Reproduction (repro NOEL): 450 ppm

AQUATIC
Rainbow Trout (96-Hour LC_{50}): 0.26 ppb
Bluegill Sunfish (96-Hour LC_{50}): 0.17 ppb
Sheepshead Minnow (96-Hour LC50): 0.48 ppb
Eastern Oyster (96-Hour LC50): 8.2 ppb
Mysid Shrimp (96-Hour LC50): 4.6 ppt; NOEC = 1. ppt
Mollusk Shell Deposition (EC50): 8.2 ppb
Chronic Toxicity-Fathead Minnow: MATC = 24 ppt
Chronic Daphnia Toxicity: MATC = 6.0 ppt

ENVIRONMENTAL FATE: The major routes of dissipation are soil binding and soil microbial degradation. Although soil binding is strong, it is not immediate. It appears that spray drift is the only significant route of exposure to aquatic organisms. However, Deltamethrin’s strong binding capacity to slime, plants, sediment, etc., might rapidly prevent the availability of Deltamethrin for bioconcentration in aquatic systems. Additionally, its insolubility in water will be a factor in limiting its bioconcentration as well. Deltamethrin hydrolyzes under alkaline conditions. Leaching studies indicate that Deltamethrin is immobile.

Water Solubility: <0.20 mg/l @25°C
Hydrolytic Half-Life: 2.28-2.70 days @ pH 9.0
Photolytic Half-Life: 64/86 days (water); 9 days (soil)
Soil Half-Life: 14-40 days (cropped plots); 37-69 days (bare ground) in field dissipation studies.
Kads: 960-4750 depending on soil type
Bioconcentration Factor (BCF in bluegill sunfish): 189-3630x

13. DISPOSAL CONSIDERATIONS:

PRODUCT DISPOSAL: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: If empty: Do not reuse container. Place in trash or offer for recycling if available. If partially filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

RCRA INFORMATION:

14. TRANSPORT INFORMATION:

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

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. (Deltamethrin)

Class: 9
UN No.: UN 3077
Packing Group: III
Marine Pollutant: Deltamethrin
REGULATION UNDER FIFRA: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

U.S. FEDERAL REGULATORY INFORMATION

EPA Registration Number: 7401-452

OTHER U.S. FEDERAL REGULATIONS:

OSHA:
Listed in the NTP Annual Report on Carcinogens? Yes, silica.
Found to be a potential carcinogen by OSHA or IARC? Yes, silica.

SARA TITLE III:
Sara (313) Chemicals: silica
Sara (311,312): Immediate Health Effects: yes Chronic Health Effects: yes
Fire Hazard: no
Sudden Release of Pressure: no
Reactivity Hazard: no

TSCA Inventory status:
These components are not listed:
Deltamethrin .5% (52918-63-5)
These components are listed:
Inert material contains trace amounts of:
Lead, cadmium, arsenic, respirable crystalline silica

INTERNAL REGULATIONS
The following chemical(s) associated with the product have also been listed on the following International inventories:
Deltamethrin (52918-63-5): EINECS

U.S. STATE REGULATORY INFORMATION

CALIFORNIA (Proposition 65): This product contains a chemical known to the State of California to cause cancer. Inert ingredient – contains trace amounts of lead, cadmium, arsenic and respirable crystalline silica.

STATE REGULATIONS: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities.

HMIS HAZARD RATING - HEALTH: 1 Slight
FIRE: 0 Slight
REACTIVITY: 0 Negligible
PROTECTION: A

NFPA HAZARD RATING - HEALTH: 1 Slight
FIRE: 0 Slight
REACTIVITY: 0 Negligible
Hi-Yield® Kill-A-Bug II Dust

In the event or 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

SPECIAL:

NFPA RATINGS:
(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgment.

* RQ: Reportable Quantity
** RCRA waste codes must be determined on a case-by-case basis (i.e., spills, processing waste, etc.).

For information regarding potential adverse health effects from exposure to this product, refer to Section 3 and 11.

16. OTHER INFORMATION:

LEGEND:
N/A = Not Applicable
N/D = Not Determined
N/L = Not Listed
L = Listed
C = Ceiling
S = Short Term

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