

MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact
ChemTel, Inc. North America 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

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

Hi-Yield® Grub Free Zone III

Effective Date: May 17, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Grub Free Zone III
EPA No.: 53883-199-7401

COMPANY IDENTIFICATION:

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

Active Ingredient: Imidacloprid

Chemical Family: Insecticide

Molecular Formula: C₉H₁₀ClN₅O₂

Synonyms: 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinime

2. COMPOSITION / INFORMATION ON INGREDIENTS:

| <u>CHEMICAL NAME</u> | <u>CAS#</u> | <u>WT.%</u> | <u>PEL/TLV</u> |
|----------------------|-------------|-------------|-----------------------|
| Imidacloprid | 138261-41-3 | 0.5 | None |
| Cellulose complex | 9004-34-6 | >90.0 | 5.0 mg/m ³ |

3. HAZARDS IDENTIFICATION SUMMARY:

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Gray – tan, solid granules with a slightly musty odor.

- Slightly combustible. May support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Highly toxic to aquatic invertebrates. Keep out of drains and watercourses.

POTENTIAL HEALTH EFFECTS: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

MEDICAL CONDITIONS AGGRAVATED: None presently known.

4. FIRST AID MEASURES:

Have the product container or label with you when calling poison control center or doctor, or going for treatment.

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 eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off all contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 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 directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.

NOTE TO MEDICAL DOCTOR: There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Water, Carbon Dioxide (CO₂), dry chemical, foam.

FLASH POINT: Not applicable.

MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact ChemTel, Inc. North America 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

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

Hi-Yield® Grub Free Zone III

Effective Date: May 17, 2012

FIRE FIGHTING PROCEDURES: Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike areas to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

In the event of fire, wear self-contained breathing apparatus.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES:

Keep unprotected persons and animals out of the area.

Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Avoid dust formation. Avoid breathing dust. Avoid contact with skin and eyes. Use recommended protective equipment while carefully sweeping up spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers or other waterways.

7. HANDLING AND STORAGE:

GENERAL PROCEDURES: Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

ENGINEERING CONTROLS: Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Tightly fitted safety goggles.

HAND PROTECTION: Suitable chemical resistant gloves.

RESPIRATORY: When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

PROTECTIVE CLOTHING: Wear long-sleeved shirt and long pants and shoes plus socks.

WORK HYGIENIC PRACTICES: Clean water should be available for washing in case of eye or skin contamination.

Wash skin prior to eating, drinking or using tobacco. Remove clothing if pesticide gets inside. Then wash thoroughly and put on clean clothing. Shower at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL DESCRIPTION: Gray-tan solid granule.

ODOR: Slightly musty.

BULK DENSITY: 35-80 lb/cu.ft.

MOLECULAR WEIGHT: 255.7 (imidacloprid)

10. STABILITY AND REACTIVITY:

STABILITY: Stable

CONDITIONS TO AVOID: Extreme temperatures

POLYMERIZATION: Will not occur

11. DISPOSAL CONSIDERATIONS:

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

MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact
ChemTel, Inc. North America 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

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

Hi-Yield® Grub Free Zone III

Effective Date: May 17, 2012

CONTAINER DISPOSAL: Completely empty package into application equipment then dispose of empty package in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.

12. TRANSPORTATION INFORMATION:

DOT CLASSIFICATION: Not regulated for Domestic Surface Shipment.

FREIGHT CLASSIFICATION: Insecticides or Fungicides, N.O.I., other than poison.

13. OTHER INFORMATION:

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee, expressed or implied, is made by Voluntary Purchasing Groups, Inc. as to the results to be obtained based upon your use of the information, nor does Voluntary Purchasing Groups, Inc. assume any liability arising out of your use of the information.