

**Material  
Safety  
Data  
Sheet**
**Hi-Yield® Di-Syston® Insecticide Granules**
**SECTION 1 - CHEMICAL PRODUCT AND 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® Di-Syston® Insecticide Granules	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Mixture of diatomaceous earth and Disulfoton
Trade Name & Synonyms: Hi-Yield® Di-Syston® Insecticide Granules	
EPA # 7401-323	

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Attapulgit	12174-11-7	Proprietary	0.1 mg/m3*	0.1 mg/m3*
Disulfoton	298-04-4	Proprietary	0.1 mg/m3	0.1 mg/m3

\* Respirable quartz

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 3 - PHYSICAL DATA**

BOILING POINT (°F) Does not apply	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 0.6	VAPOR PRESSURE (mm Hg) Does not apply	
PERCENT VOLATILE BY VOLUME (%) <15%	VAPOR DENSITY (AIR=1) Does not apply	EVAPORATION RATE (ethyl ether=1) Not determined	
SOLUBILITY IN WATER Negligible	REACTIVITY IN WATER Will not evolve flammable or toxic gases		
APPEARANCE AND ODOR Gray to red granules. Characteristic odor of sulfur compounds.			

**SECTION 4 - FIRE AND EXPLOSION DATA**

FLASH POINT (°F) Does not apply	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined		
EXTINGUISHING MEDIA Water, dry chemical, carbon dioxide	AUTO IGNITION TEMPERATURE Not determined		
UNUSUAL FIRE AND EXPLOSION HAZARDS Thermal decomposition will evolve phosphorous pentoxide, carbon monoxide, sulfur dioxide, and ethyl mercaptan.			
SPECIAL FIRE FIGHTING PROCEDURES Utilize positive pressure self-contained breathing apparatus with full body protection. Stay away from smoke. Do not breathe dusts, smoke or decomposition products. Cool exposed containers with water supply.			

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**SECTION 5 - HEALTH INFORMATION**

<b>PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS</b> Inhalation, ingestion, skin or eye contact, skin absorption		
<b>SIGNS AND SYMPTOMS OF EXPOSURE</b>		
<b>(1) ACUTE OVEREXPOSURE</b> Exposure may produce symptoms of nausea, sweating, tightness in the chest, and miosis. Increased exposure can produce symptoms such as stomach pains, vomiting, and diarrhea. More excessive exposure can produce muscular tremors, uncontrolled mucous secretion, convulsions and coma. Irritating to eyes and skin.		
<b>(2) CHRONIC OVEREXPOSURE</b> Disulfoton is a cholinesterase inhibitor. Inhalation of dust may permanently damage the lungs and result in the development of pneumoconiosis, silicosis, or other respiratory disorders.		
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE</b> Disorders of the respiratory system, nervous system, dermatitis or other skin disorders.		
<b>CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN</b> None		
<b>NTP</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>IARC</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>OSHA</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<b>OTHER EXPOSURE LIMITS</b> ACGIH TLV (nuisance dusts)=10 mg/m <sup>3</sup> ; OSHA PEL (nuisance dusts)= 15 mg/m <sup>3</sup>		
<b>EMERGENCY AND FIRST AID PROCEDURES</b> <b>INGESTION:</b> Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. <b>EYE AND SKIN CONTACT:</b> Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation or symptoms occur seek medical attention. <b>INHALATION:</b> Remove to fresh air. If not breathing; give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician. <b>NOTE TO PHYSICIAN:</b> Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance.		

**SECTION 6 - REACTIVITY DATA**

<b>STABILITY</b> <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	<b>CONDITIONS TO AVOID</b> Sustained temperatures above 100 degrees F.
<b>INCOMPATIBILITY (Materials to Avoid)</b> Strong oxidizing agents.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> P <sub>2</sub> O <sub>5</sub> , CO, SO <sub>2</sub> , ethyl mercaptan.	
<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	<b>CONDITIONS TO AVOID</b> Does not apply

**SECTION 7 - SPILL OR LEAK PROCEDURES**

<b>STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED</b> Avoid skin contact and breathing dusts. See Section 8. Sweep-up spilled material and place in a sealed, labeled container. Scrub area with detergent and bleach. Rinse with water.
<b>WASTE DISPOSAL METHOD</b> Dispose of in accordance with Federal, State, and local regulations.

**SECTION 8 - PERSONAL PROTECTION INFORMATION****RESPIRATORY PROTECTION**

NIOSH/MSHA approved for protection against toxic/pesticide dusts containing quartz.

**VENTILATION**

Local or general exhaust to maintain below TLV/PEL

**PROTECTIVE GLOVES**

Latex or Neoprene

**EYE PROTECTION**

Safety glasses or goggles (ANSI Z87.1 1979)

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Apron, boots, long sleeve shirt and full-length pants (or overalls) may be worn when necessary to prevent skin contact. Eye wash and shower facilities should be available.

**SECTION 9 - SPECIAL PRECAUTIONS****PRECAUTIONS TO BE TAKEN IN HANDLING & STORING**

Store in cool dry, well-ventilated area. Do not store near any material intended for human or animal consumption or use. 30-day average storage temperatures should not exceed 1100 degrees F.

**OTHER PRECAUTIONS**

Keep out of reach of children. Harmful if swallowed. May be absorbed through the skin.

**SECTION 10 - 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.