

**Material
Safety
Data
Sheet**

Hi-Yield® Vegetable, Flower, Fruit & Ornamental Fungicide

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® Vegetable, Flower, Fruit & Ornamental Fungicide	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Mixture of Daconil®-Ole 75% Fungicide, Armul, Arnox, and water
Trade Name & Synonyms: Hi-Yield® Vegetable, Flower, Fruit & Ornamental Fungicide EPA # 60063-16-7401	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Surfactant *	Not established	Proprietary	Not determined	Not determined
Chlorothalonil [1]	1897-45-6	12.5	Not determined	Not determined
* A maximum of 1-PPM ethylene oxide (EO) may be present. The OSHA PEL for EO if 1 PPM.				

[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 3 - PHYSICAL DATA

BOILING POINT (°F) Not established	SPECIFIC GRAVITY (H ₂ O=1) 1.07	VAPOR PRESSURE (mm Hg) Not established
PERCENT VOLATILE BY VOLUME (%) Not established	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) Not established
SOLUBILITY IN WATER Not determined	REACTIVITY IN WATER Not determined	
APPEARANCE AND ODOR Light tan or brown liquid; no odor.		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) 46.7 degrees C (Arnox)	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not established Upper: Not established
EXTINGUISHING MEDIA	AUTO IGNITION TEMPERATURE
Product Name: Hi-Yield® Vegetable, Flower, Fruit & Ornamental Fungicide	ID Number: Page: 1

Foam, carbon dioxide or dry chemical.	Not determined
UNUSUAL FIRE AND EXPLOSION HAZARDS Closed containers may rupture/explode when exposed to heat.	
SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus for fire fighting.	

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Eyes, skin, upper respiratory tract, gastrointestinal tract.		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) ACUTE OVEREXPOSURE EYE CONTACT: Severe irritation. SKIN CONTACT: Moderate to severe irritation. INHALATION: Excessive exposure may cause respiratory irritation, nausea, or vomiting. INGESTION: May cause gastrointestinal irritation, nausea, vomiting, or diarrhea.		
(2) CHRONIC OVEREXPOSURE Not determined		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE None determined		
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
OTHER EXPOSURE LIMITS Less than 1-PPM Ethylene Oxide (EO) may be present. EO is determined to be a cancer/reproductive hazard. Trace levels are not expected to cause acute/chronic health hazards.		
EMERGENCY AND FIRST AID PROCEDURES EYE CONTACT: Flush eyes with water for 15 minutes. Seek medical attention. SKIN CONTACT: Remove contaminated clothing. Flush with water for several minutes. Seek medical attention. Wash clothing before reuse. INGESTION: Do not induce vomiting. Induction of vomiting may result in aspiration of the solvent into the lungs. Seek medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.		

SECTION 6 - REACTIVITY DATA

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID None
INCOMPATIBILITY (Materials to Avoid) Strong oxidizers	
HAZARDOUS DECOMPOSITION PRODUCTS Products of combustion are hazardous.	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	CONDITIONS TO AVOID Does not apply

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Eliminate all potential ignition sources. Wear rubber boots, gloves, splash goggles and other impervious protective equipment as described in Section 8. Absorb spilled material with clay. Sweep up and place in a closed, labeled container. Flush area with water.
WASTE DISPOSAL METHOD Dispose of in accordance with Federal, State, and local regulations.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Not required under conditions of normal intended use.

VENTILATION

Use in well-ventilated area.

PROTECTIVE GLOVES

If skin contact is likely to occur

EYE PROTECTION

Chemical splash goggles (ANSI Z87.1 1979)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

None determined

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Keep container lids tightly closed. Keep away from heat and ignition sources. Do not use with aluminum equipment above 49 degrees c.

OTHER PRECAUTIONS

Wash hands with soap and water before eating, smoking, or using the toilet. Do not contaminate feed, foodstuffs, or water.

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.