

**Material  
Safety  
Data  
Sheet**
**Hi-Yield® Kelthane® Spray**
**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® Kelthane® Spray	Chemical Family: Pesticide
Chemical Name: Mixture containing dicofol	Formula: Mixture
Trade Name & Synonyms: Hi-Yield® Kelthane® Spray EPA # 707-202-7401	

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

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Dicofol[1]	115-32-2	44-45	Not established*	Not established*
Methyl oleate (MO)	Not determined	55-56	Not established	Not established
Proprietary blend of surfactants	Proprietary	Proprietary	Not established	Not established
Related reaction products	Not established	Not determined	Not established	Not established
*Rohm and Haas Company has established an internal TWA/TLV of 1mg/m3 for this substance				

[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) 167C/333F (MO)	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 1.12-1.14 @ 20C/68F	VAPOR PRESSURE (mm Hg) 2 @ 20C/68F (MO)
PERCENT VOLATILE BY VOLUME (%) 40%-45%	VAPOR DENSITY (AIR=1) >1	EVAPORATION RATE (butyl acetate=1) <1
SOLUBILITY IN WATER Negligible		REACTIVITY IN WATER Will not evolve flammable or toxic gases
APPEARANCE AND ODOR Amber liquid; mild odor		

**SECTION 4 - FIRE AND EXPLOSION DATA**

FLASH POINT (°F) 93C/200F	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined
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EXTINGUISHING MEDIA CO2, dry chemical, water spray	AUTO IGNITION TEMPERATURE Not determined
UNUSUAL FIRE AND EXPLOSION HAZARDS Fire produces toxic products: hydrogen chloride and chlorine gas. Remain upwind. Avoid smoke. Pesticide particulates can become airborne.	
SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Run-off should be contained.	

### SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Inhalation, eye and skin contact, ingestion		
SIGNS AND SYMPTOMS OF EXPOSURE (1) ACUTE OVEREXPOSURE Substantially irritating to eyes and skin. May cause allergic skin reactions. Over-exposure by any route to chlorinated hydrocarbons may cause nervousness and hyperactivity, headache, nausea, vomiting, unusual sensations and fatigue. Convulsions and coma may follow.		
(2) CHRONIC OVEREXPOSURE Prolonged or repeated exposure to dicofol can cause liver, adrenal, kidney or heart damage.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Disorders of the skin, eyes, liver, adrenal system, nervous system, kidney, or the heart.		
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 Internal TWATLV established by Rohm and Haas = 1 mg/m3		
EMERGENCY AND FIRST AID PROCEDURES INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. EYE AND SKIN CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse. INGESTION: If swallowed dilute by giving two glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.		

### SECTION 6 - REACTIVITY DATA

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID Temperature above 80C/176F
INCOMPATIBILITY (Materials to Avoid) Iron, acids, mild steel	
HAZARDOUS DECOMPOSITION PRODUCTS Chloride, chloride fumes, chlorine and hydrogen chloride	
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**

Wear protective clothing. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to labeled containers for recovery or disposal. Erect diking to separate containers for disposal. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered. Keep spills and cleaning run-offs out of municipal; sewers and open bodies of water. This product is toxic to fish. Notify the National Response Center if spill exceeds reportable quantity of 23lbs. (Dicofol content, 40 CFR Part 302, 'Superfund').

**WASTE DISPOSAL METHOD**

Dispose of in accordance with Federal, State, and local regulations. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of waste.

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

NIOSH/MSHA approved respiratory devices.

**VENTILATION**

Local exhaust at point of contaminant release.

**PROTECTIVE GLOVES**

Utilize impervious gloves to prevent skin contact.

**EYE PROTECTION**

Chemical splash safety goggles (ANSI Z87.1 1979) to prevent eye contact with this substance. Contact lenses should not be worn.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

When necessary utilize impervious clothing and other equipment to prevent skin contact with this substance.

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

Store in cool, dry area away from incompatible materials. Eyewash, safety shower, and protective equipment should be available. Do not store near food or feed.

**OTHER PRECAUTIONS**

Not determined

**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.