

**Material  
Safety  
Data  
Sheet**
**Hi-Yield® Grass Killer**
**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® Poast	Chemical Family: Mixture
Chemical Name: Sethoxydim mixture	Formula: Mixture
Trade Name & Synonyms: Hi-Yield® Grass Killer EPA # 7969-58-7401	

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

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Sethoxydim	74051-80-2	18	Not established	Not established
Petroleum solvent [1]	64742-94-5	82	100 PPM	100 PPM
Naphthalene [1]	91-20-3	<9	10 PPM	10 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 determined	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 0.935	VAPOR PRESSURE (mm Hg) 2 @ 20 degrees C
PERCENT VOLATILE BY VOLUME (%) Not determined	VAPOR DENSITY (AIR=1) Not determined	EVAPORATION RATE (ethyl ether=1) Not determined
SOLUBILITY IN WATER Forms emulsion	REACTIVITY IN WATER May produce toxic or hazardous agents.	
APPEARANCE AND ODOR Light amber liquid; moderate aromatic odor.		

**SECTION 4 - FIRE AND EXPLOSION DATA**

FLASH POINT (°F) 121 degrees F	FLAMMABLE LIMITS IN AIR (% by volume) Lower: 1.3 Upper: 5.3	
EXTINGUISHING MEDIA Water fog, foam, CO <sub>2</sub> , or dry chemical	AUTO IGNITION TEMPERATURE 397 degrees C	
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined		
SPECIAL FIRE FIGHTING PROCEDURES Firefighters should be equipped with self-contained breathing apparatus and turnout gear.		

**SECTION 5 - HEALTH INFORMATION**

<b>PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS</b> Skin or eye contact, inhalation, ingestion		
<b>SIGNS AND SYMPTOMS OF EXPOSURE</b>		
(1) ACUTE OVEREXPOSURE Contact with eyes causes irritation, redness and corneal clouding which may persist in a few days. Prolonged skin contact produces irritation, redness and swelling. Irritating to the nose, throat and lungs if mists are inhaled. Ingestion may cause sedation, upset stomach, diarrhea, central nervous system effects, and possible liver damage.		
(2) CHRONIC OVEREXPOSURE Prolonged or repeated exposure may damage the central nervous system and liver. May produce sensitization in susceptible individuals.		
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE</b> Disorders of the skin, eyes, respiratory system, central nervous system, or liver.		
<b>CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN</b> 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
<b>OTHER EXPOSURE LIMITS</b> OSHA and ACGIH STEL - 15 PPM		
<b>EMERGENCY AND FIRST AID PROCEDURES</b> 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: Do not induce vomiting. Dilute with water and milk and get immediate medical attention. Never give anything by mouth to an unconscious person. Call a physician. INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.		

**SECTION 6 - REACTIVITY DATA**

<b>STABILITY</b> <input checked="" type="checkbox"/> Unstable <input type="checkbox"/> Stable	<b>CONDITIONS TO AVOID</b> Heat, air, moisture.
<b>INCOMPATIBILITY (Materials to Avoid)</b> Strong oxidizers.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> Oxides of carbon	
<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> Eliminate ignition sources. Wear protective equipment. Cover contaminated area with absorbent material until dry. Spills should be contained, absorbed with sand or otherwise solidified, and placed in suitable, labeled containers for disposal. Wash down the area with trisodium phosphate, household lye. This material is RCRA hazardous due to its properties. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of wastes.
<b>WASTE DISPOSAL METHOD</b> Dispose of in accordance with Federal, State, and local regulations. Do not discharge into waterways or sewer systems without proper authorities.

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

NIOSH/MSHA approved respiratory devices to protect against organic vapors and herbicides.

**VENTILATION**

General or local exhaust to maintain employees exposure below the TLV/PEL.

**PROTECTIVE GLOVES**

Impervious gloves to prevent skin contact.

**EYE PROTECTION**

Splash-proof safety goggles 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 a cool, dry area away from ignition sources.

**OTHER PRECAUTIONS**

Eyewash/ shower facilities should be available.

**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.