

**Material
Safety
Data
Sheet**
Hi-Yield® Crabgrass Preventer plus Lawn Food
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® Crabgrass Preventer plus Lawn Food	Chemical Family: Mixture
Chemical Name: Mixture	Formula: Mixture
Trade Name & Synonyms: Hi-Yield® Crabgrass Preventer plus Lawn Food EPA # 62719-137-7401	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Alpha, alpha, alpha-Trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine (Trifluraline)*	1582-09-8	0.71	Not established	Not established
Ammonium sulphate*	7783-20-2	10	Not established	Not established
Urea	57-13-6	Proprietary	Not established	Not established
Attapulgite (diatomaceous earth)	12174-11-7	Proprietary	0.1 mg/m3 **	.01 mg/m3 **
Potassium chloride	7557-40-1	Proprietary	Not established	Not established
Benefin	1861-40-1	0.5 to 1.3	Not established	Not established
Monoammonium phosphate	7722-76-1	Proprietary	Not established	Not established
Xylene*	1330-20-7	1.9	100 PPM	100 PPM

*This substance 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.

**Respirable fraction

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 ₂ O=1) 0.5	VAPOR PRESSURE (mm Hg) Does not apply
PERCENT VOLATILE BY VOLUME (%) 2.5	VAPOR DENSITY (AIR=1) Does not apply	EVAPORATION RATE (ethyl ether=1) Not determined
SOLUBILITY IN WATER Appreciable	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Multicolored granules. Chlorine / aromatic odor.		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) 76 deg. F (Xylene)	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined
EXTINGUISHING MEDIA Dry chemical, carbon dioxide, water spray.	AUTO IGNITION TEMPERATURE 637 deg. F.
UNUSUAL FIRE AND EXPLOSION HAZARDS Emits toxic fumes, including ammonia and sulfur trioxide, when heated to decomposition. May form an explosive mixture when dispersed in air. An explosion hazard will exist if mixed with oxidizers such as potassium chlorate, potassium nitrate, or potassium nitrite.	
SPECIAL FIRE FIGHTING PROCEDURES Wear full protective clothing and use positive pressure, self-contained breathing apparatus. Avoid inhalation of fumes and dusts. Non-essential personnel should be restricted from area of intense smoke. Do not allow water runoff from fire site to enter nearby streams, ponds, or lakes. Keep containers cooled with water spray.	

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Skin or eye contact, inhalation, ingestion, sensitization. Target organs include lungs, gastrointestinal tract, liver, blood, thyroid, uterus, ovaries, testes and central nervous system. A component of this product (Trifluraline) may be absorbed through the skin.		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) ACUTE OVEREXPOSURE Ingestion or inhalation of large quantities may cause symptoms of non-specific irritation of the gastrointestinal tract with symptoms of nausea, vomiting, cramps, dyspnea and diarrhea. Components of product are irritating to the eyes and may produce mild skin irritation. Components of product may cause depression of the central nervous system.		
(2) CHRONIC OVEREXPOSURE Inhalation of dusts may permanently damage the lungs and result in the development of pneumoconiosis, silicosis, or other respiratory disorders. Ingestion, inhalation, or skin absorption may affect the liver, blood, thyroid, uterus, ovaries, testes, and central nervous system. May produce contact sensitization. High allergic individuals should avoid contact.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Disorders of the eyes, skin, lungs, gastrointestinal tract, liver, blood, thyroid, uterus, ovaries, testes, and central nervous systems.		
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 STEL-Xylene = 150 PPM (OSHA and ACGIH); TLV = 10 mg/m ³ as a nuisance dust (ACGIH); PEL = 15 mg/m ³ as a nuisance dust (OSHA).		
EMERGENCY AND FIRST AID PROCEDURES INGESTION: Call a physician or poison control center immediately. Administer activated charcoal with a large quantity of water. SKIN OR EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse. Obtain medical attention if irritation persists. 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

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID None determined
INCOMPATIBILITY (Materials to Avoid) Strong oxidizers and alkalis, potassium chlorate, potassium nitrate, potassium nitrite, and phenoxy-type herbicides.	
HAZARDOUS DECOMPOSITION PRODUCTS Ammonia, sulfur trioxide, phosphorous oxides, cyanuric acid, cyanic acid, oxides of carbon, and other toxic vapors.	
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 Cleanup of spills may require personal protective equipment. Eliminate sources of ignition. Sweep-up or scoop up the material and place in original labeled container, or another sealed and properly labeled container. Keep spill out of sewers and open bodies of water. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of waste.
WASTE DISPOSAL METHOD Dispose of in accordance with Federal, State, and local regulations. Components of this product are toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public water unless this product is specifically identified and addressed in a NPDES permit. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. Do not contaminate water, food or feed by storage or disposal.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION NIOSH/MSHA approved respiratory devices to protect against toxic dusts containing quartz, organic vapors, and ammonia.
VENTILATION General or local exhaust to maintain employee exposure below the TLV/PEL.
PROTECTIVE GLOVES Impermeable gloves to prevent skin contact.
EYE PROTECTION Chemical splash goggles (ANSI Z87.1)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT Utilize impervious apron, long sleeved shirt, full-length pants (or overalls), boots, and other protective equipment, as necessary to prevent skin contact. Eyewash and shower facilities should be available.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING Corrosive to cast iron and aluminum. Store in dry, cool, ventilated area, out of direct sunlight. Separate from strong oxidizers and other chemical agents. Keep out of reach of children. This product is toxic to fish. Do not contaminate water, food, or feed by storage or disposal. Avoid freezing. Store above 40 degrees F.
OTHER PRECAUTIONS Keep out of reach of children.

SECTION 10 - OTHER INFORMATION

None determined

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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.