

**Material
Safety
Data
Sheet**
Hi-Yield® Weed And Feed
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® Weed & Feed	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Mixture of urea, monoammonium phosphate, diatomaceous earth, vermiculite, Trimec, and water.
Trade Name & Synonyms: Hi-Yield® Weed & Feed EPA # 2217-661-7401	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Urea	57-13-6	Proprietary	Not established	Not established
Attapulgate	12174-11-7	Proprietary	0.1 mg/m3*	0.1 mg/m3*
Monoammonium phosphate	7722-76-1	Proprietary	Not established	Not established
Vermiculite	1318-00-9	Proprietary	Not established	Not established
Dimethylamine salts of:				
2,4-D DMA	2008-39-1	Proprietary	Not established	Not established
Mecoprop DMA	32351-70-5	Proprietary	Not established	Not established
Dicamba DMA	2300-66-5	Proprietary	Not established	Not established

* 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 ₂ O=1) 0.6	VAPOR PRESSURE (mm Hg) Does not apply
PERCENT VOLATILE BY VOLUME (%) <1%	VAPOR DENSITY (AIR=1) Does not apply	EVAPORATION RATE (ethyl ether=1) Does not apply
SOLUBILITY IN WATER Appreciable	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Multicolored granules; slight chlorine odor		

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	AUTO IGNITION TEMPERATURE	
Product Name: Hi-Yield® Weed & Feed	ID Number:	Page 1 of 3

Water, foam, dry chemical, CO2.	Not determined
UNUSUAL FIRE AND EXPLOSION HAZARDS Decomposes upon heating to liberate ammonia. Avoid dispersion of dust in air to reduce potential explosion hazard. Runoff from fire control or dilution water may cause pollution. In case of water pollution, call local authorities.	
SPECIAL FIRE FIGHTING PROCEDURES Wear pressure-demand, self-contained breathing apparatus, MSHA/NIOSH approved or equivalent, and full protective gear. Avoid inhalation of fumes and dust. Isolate area and keep unnecessary people away. Fight fire from maximum distance.	

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Eye and skin contact, inhalation, ingestion.		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) ACUTE OVEREXPOSURE Ingestion of large quantities may cause symptoms of non-specific irritation of the gastrointestinal tract; nausea, vomiting, cramps, and diarrhea. Severe metabolic acidosis followed by myotonia, myoglobinuria and elevated serum creatine phosphokinase may also result. Eye and skin contact may result in local irritation. Inhalation of high concentrations may result in upper respiratory tract irritation.		
(2) CHRONIC OVEREXPOSURE Inhalation of dust may permanently damage the lungs and result in the development of pneumoconiosis, silicosis, or other respiratory disorders. Allergic sensitivity may develop in some individuals.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Disorders of respiratory system, nervous or muscular system, dermatitis, or other skin disorders.		
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN Attapulgit, crystalline silica.		
NTP <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IARC <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OSHA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
OTHER EXPOSURE LIMITS PEL (amorphous silica)=6mg/m ³ TLV (nuisance dusts)=10mg/m ³		
EMERGENCY AND FIRST AID PROCEDURES INGESTION: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything to an unconscious person. Call a physician. EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire lids with water. Obtain medical attention if irritation persists. Oils or ointments should not be used unless directed by a physician. SKIN CONTACT: Immediately wash skin with soap and water. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. 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 Decomposes upon heating.
INCOMPATIBILITY (Materials to Avoid) Strong oxidizers and alkalis	
HAZARDOUS DECOMPOSITION PRODUCTS Ammonia, phosphorous oxides, cyanuric acid, cyanic acid, hydrogen chloride, organo chlorides, and carbon dioxide.	
HAZARDOUS POLYMERIZATION <input checked="" type="checkbox"/> May Occur <input type="checkbox"/> Will Not occur	CONDITIONS TO AVOID Avoid heating or direct exposure to sunlight.

SECTION 7 - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED**

Clean up of spills may require personal protective equipment. See Section 8. Contain spill. Sweep up or vacuum the material and transfer to a sealed, labeled container. Do not touch spilled product. Wash area with water.

WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulations.

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

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

VENTILATION

Local or general exhaust to maintain exposure below TLV/PEL.

PROTECTIVE GLOVES

Rubber, PVC, or Neoprene.

EYE PROTECTION

Safety 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**

Corrosive to cast iron and aluminum. Store in a cool, dry, ventilated area, out of direct sunlight. Keep from freezing. Pesticide wastes are toxic. Do not contaminate water by storage or disposal.

OTHER PRECAUTIONS

Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not contaminate feed or foodstuffs. Store in original container in a locked storage area inaccessible to children or pets.

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.