

**Material  
Safety  
Data  
Sheet**
**Hi-Yield® All Purpose Fertilizer**
**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® All Purpose Fertilizer	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Mixture of urea, ammonium sulfate, monoammonium phosphate, muriate of potash, limestone, diatomaceous earth, and vermiculite.
Trade Name & Synonyms: Hi-Yield® All Purpose Fertilizer	

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

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Attapulgit	12174-11-7	Proprietary	0.1mg/m3*	0.1mg/m3*
Dolomitic Limestone	16389-88-1	Proprietary	10 mg/m3	15mg/m3
Monoammonium phosphate	7722-76-1	Proprietary	Not established	Not established
Ammonium Sulfate [1]	7783-20-2	Proprietary	Not established	Not established
Potassium Chloride	7447-40-7	Proprietary	Not established	Not established
* Respirable quartz				

[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) Does not apply	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 0.5	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 Water, foam, dry chemical, or carbon dioxide	AUTO IGNITION TEMPERATURE Not determined	

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**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Thermal decomposition will evolve ammonia & sulfur trioxide. May form an explosive mixture when dispersed in air. An explosion hazard will exist if mixed with oxidizers such as potassium chlorate, potassium nitrite, or potassium nitrate.

**SPECIAL FIRE FIGHTING PROCEDURES**

Wear pressure-demand, self-contained breathing apparatus, MSHA/NIOSH approved or equivalent, and full protective gear. Avoid inhalations of fumes and dusts.

**SECTION 5 - HEALTH INFORMATION****PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS**

Skin contact, inhalation, eye contact, 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. 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.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Disorders of respiratory system, dermatitis, or other skin disorders.

**CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN**

None

**NTP**

YES  NO

**IARC**

YES  NO

**OSHA**

YES  NO

**OTHER EXPOSURE LIMITS**

ACGIH TLV (nuisance dusts)=10 mg/m<sup>3</sup>; OSHA PEL (nuisance dusts)= 15mg/m<sup>3</sup>

**EMERGENCY AND FIRST AID PROCEDURES**

**INGESTION:** Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician. **EYE CONTACT:** Immediately flush eyes with water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface of the eye and 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. Wash clothing before reuse. **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**

Unstable  Stable

**CONDITIONS TO AVOID**

Decomposes upon heating.

**INCOMPATIBILITY (Materials to Avoid)**

Strong oxidizers and alkalis, potassium chlorate, potassium nitrate, and potassium nitrite.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Ammonia, sulfur trioxide, phosphorous oxides, cyanuric acid, cyanic acid, and carbon dioxide.

**HAZARDOUS POLYMERIZATION**

May Occur  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. Sweep-up or vacuum the material to the original container, or to a sealed, labeled container. Keep spill out of sewers and open bodies of water.

**WASTE DISPOSAL METHOD**

Components of this product are toxic to aquatic life. Dispose of in accordance with Federal, State, and local regulations.

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

NIOSH/MSHA approved for protective against toxic dusts containing quartz. If ammonia vapors are encountered, NIOSH/MSHA approved respirators for protection against ammonia vapors.

**VENTILATION**

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

**PROTECTIVE GLOVES**

PVC or Neoprene

**EYE PROTECTION**

Safety glasses or 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 dry, cool, ventilated area, out of direct sunlight. Separate from strong oxidizers.

**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.