

MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact
ChemTel, Inc. North American 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Hi-Yield® Superphosphate

Effective Date: May 23, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Superphosphate

FORMULA: Mixture

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL COMPONENT	% (TYPICAL)
Available phosphate (P2O5)	18%

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 (%) <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 Solid; light odor		

4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F) Does not apply	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Not determined</u> Upper: <u>Not determined</u>	
EXTINGUISHING MEDIA Water, foam, dry chemical or carbon dioxide	AUTO IGNITION TEMPERATURE Not determined	
UNUSUAL FIRE AND EXPLOSION HAZARDS Thermal decomposition will evolve ammonia. 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 pressure-demand, self-contained breathing apparatus, MSHA/NIOSH approved or equivalent, and full protective gear. Avoid inhalations of fumes and dusts.		

5. HEALTH INFORMATION:

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Skin and eye 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. Eye and skin contact may result in local irritation. Inhalation of high concentrations may result in upper respiratory tract irritation.

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(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

PEL (amorphous silica): 80 milligrams per cubic meter/%SiO₂-OSHA; TLV (nuisance dust):10 mg/m³-ACGIH.

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.

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.

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. 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.

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

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

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.

10. TRANSPORT INFORMATION:

Not regulated by DOT or IMDG.

11. 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.