

**Material
Safety
Data
Sheet**
Hi-Yield® Bone And Blood Meal
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® Bone and Blood Meal	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Mixture of bone meal and blood meal.
Trade Name & Synonyms: Hi-Yield® Bone and Blood Meal	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Protein	Not determined	Proprietary	Not established	Not established
Tricalcium Phosphate	7758-87-4	Proprietary	Not established	Not established
Blood Meal	Not determined	Proprietary	Not established	Not established

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 established	SPECIFIC GRAVITY (H ₂ O=1) Not established	VAPOR PRESSURE (mm Hg) Not established
PERCENT VOLATILE BY VOLUME (%) Not established	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) Not established
SOLUBILITY IN WATER Slight	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Light to dark granular solid; animal odor		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) Not established	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not established Upper: Not established	
EXTINGUISHING MEDIA Use extinguisher appropriate for surrounding fire.	AUTO IGNITION TEMPERATURE Not established	
UNUSUAL FIRE AND EXPLOSION HAZARDS None		
SPECIAL FIRE FIGHTING PROCEDURES Fires should be treated as wood fires. Utilize self-contained breathing apparatus with full-face piece operated in pressure demand or other positive pressure mode.		

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS		
Eyes, gastrointestinal tract		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) ACUTE OVEREXPOSURE		
EYE CONTACT: Local irritation. SKIN CONTACT: No specific effects known. INHALATION: Inhalation of dusts may result in symptoms of respiratory discomfort including deposition of matter in the respiratory passages. INGESTION: Abdominal discomfort, possible nausea, vomiting and diarrhea if large quantities are ingested.		
(2) CHRONIC OVEREXPOSURE		
Not determined		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE		
None determined		
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		
Not determined		
EMERGENCY AND FIRST AID PROCEDURES		
EYE CONTACT: Flush with water for 15 minutes. Seek medical attention. SKIN CONTACT: Remove contaminated clothing; flush with water for several minutes. Seek medical attention if irritation persists. INGESTION: Seek medical attention immediately. Treat symptomatically and supportively. INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration, seek medical attention.		

SECTION 6 - REACTIVITY DATA

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID Not determined
INCOMPATIBILITY (Materials to Avoid) Not determined	
HAZARDOUS DECOMPOSITION PRODUCTS Not determined	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	CONDITIONS TO AVOID Not determined

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED
Keep dust levels at a minimum when cleaning up. Place in labeled container. Comply with all applicable regulations concerning spill reporting, handling, and disposal of waste.
WASTE DISPOSAL METHOD
Dispose of in accordance with Federal, State, local regulations.

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

Not required under conditions of normal intended use. Use NIOSH approved respirator to protect against nuisance dusts if exposure is above 10 mg/m³ nuisance dusts.

VENTILATION

Use in a well-ventilated area.

PROTECTIVE GLOVES

If skin contact is likely to occur

EYE PROTECTION

Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Not determined

SECTION 9 - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING & STORING**

Keep container closed when not in use and store in a cool dry area.

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.