

Material Safety Data Sheet

Hi-Yield® Bone 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: 6-14-04
Common Name (Used on Label): Hi-Yield® Bone Meal	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Not determined
Trade Name & Synonyms: Hi-Yield® Bone 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

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 Insoluble	REACTIVITY IN WATER Does not apply	
APPEARANCE AND ODOR Light straw 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.	

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: No specific effects known. 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

 YES NO

IARC

 YES NO

OSHA

 YES NO**OTHER EXPOSURE LIMITS**ACGIH TLV (nuisance dusts)=10mg/m³; OSHA PEL (nuisance dusts)= 15 mg/m³**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. INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration, seek medical attention.

SECTION 6 - REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
<input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	None determined

INCOMPATIBILITY (Materials to Avoid)

None determined

HAZARDOUS DECOMPOSITION PRODUCTS

None determined

HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID
<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	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.

WASTE DISPOSAL METHOD

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

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

Not required under conditions of normal intended use. Use a NIOSH approved respirator if exposed is above 10mg/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

None 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

None 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.