

**Material  
Safety  
Data  
Sheet**
**Hi-Yield® Stump Remover**
**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® Stump Remover	Chemical Family: Acid salt
Chemical Name: Potassium nitrate	Formula: KNO <sub>3</sub>
Trade Name & Synonyms: Hi-Yield® Stump Remover	

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

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Potassium nitrate (nuisance dusts)	7757-79-1	95.5-99.2	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>

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) 1385 degrees F	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 2.11	VAPOR PRESSURE (mm Hg) Does not apply
PERCENT VOLATILE BY VOLUME (%) Does not apply	VAPOR DENSITY (AIR=1) Does not apply	EVAPORATION RATE (ethyl ether=1) Does not apply
SOLUBILITY IN WATER Appreciable (13%)	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Transparent, colorless or white crystals; odorless		

**SECTION 4 - FIRE AND EXPLOSION DATA**

FLASH POINT (°F) Does not apply	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Does not apply Upper: Does not apply	
EXTINGUISHING MEDIA Dry chemical, CO <sub>2</sub> , Halon, or flood with water.	AUTO IGNITION TEMPERATURE Not determined	
UNUSUAL FIRE AND EXPLOSION HAZARDS Decomposition of material releases oxygen, if confined, can increase explosive limits and burning rate. If large quantities are involved nitrates may melt and molten material may scatter if water is applied. Contact with easily oxidizable, organic, or other combustible materials may result in ignition, violent combustion or explosion.		
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear self-contained breathing apparatus and full protective gear. Use water spray to cool		

Product Name: Hi-Yield® Stump Remover	ID Number:	Page 1 of 3
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nearly containers and structures exposed to fire. Cool containers with water and move from area, if possible. Apply water in flooding quantities from as far as distance as possible. Keep run-off away from water sources and sewers.

### SECTION 5 - HEALTH INFORMATION

#### PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Skin or eye contact, ingestion, inhalation

#### SIGNS AND SYMPTOMS OF EXPOSURE

##### (1) ACUTE OVEREXPOSURE

Inhalation may result in respiratory irritation, coughing and shortness of breath. Dusts may irritate the eyes. Prolonged or repeated contact with the dust may irritate the skin. Ingestion will cause irritation to the mouth and gastrointestinal tract. Large doses may be fatal. Symptoms include dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse. Small repeated doses may lead to weakness, depression, headache, and mental impairment.

##### (2) CHRONIC OVEREXPOSURE

Anemia, nephritis and methemoglobinemia.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of the skin, eyes, digestive system, respiratory system, kidneys, or blood.

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

None

#### NTP

YES  NO

#### IARC

YES  NO

#### OSHA

YES  NO

#### OTHER EXPOSURE LIMITS

Not determined

#### EMERGENCY AND FIRST AID PROCEDURES

IF SWALLOWED: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. IF INHALED: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. In case of contact, Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water.

### SECTION 6 - REACTIVITY DATA

#### STABILITY

Unstable  Stable

#### CONDITIONS TO AVOID

Excessive temperatures and contamination.

#### INCOMPATIBILITY (Materials to Avoid)

Wood, cloth, or organic materials; reducing agents: Sb, Sb<sub>2</sub>, As<sub>3</sub>, As, AsS<sub>2</sub>, Ba S, B, Bp, Ca S, F<sub>2</sub>, Cu<sub>3</sub> P<sub>2</sub>, Ge, Ge S, Sodium acetate, sodium hypophosphite, Ti, Ti S<sub>2</sub>, Zn, Zr, trichloroethylene, metals, phosphides, thorium dicarbide.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition will produce toxic oxides of nitrogen and potassium.

#### HAZARDOUS POLYMERIZATION

May Occur  Will Not occur

#### CONDITIONS TO AVOID

Does not apply

### SECTION 7 - SPILL OR LEAK PROCEDURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Utilize protective equipment. Sweep up or shovel into labeled DOT-approved waste containers. Keep out of sewers, storm drains, surface waters, and soil. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of wastes.

#### WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulations. NOTE: Empty containers can have residue, gases and mists and are subject to proper waste disposal as above.

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

NIOSH/MSHA approved respiratory devices to protect against nuisance dusts.

**VENTILATION**

Utilize general and local ventilation to maintain exposures below the TLV/PEL.

**PROTECTIVE GLOVES**

Utilize rubber gloves to prevent skin contact.

**EYE PROTECTION**

When necessary to prevent eye contact. Contact lenses should not be worn when working with chemicals.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

As necessary to prevent skin contact.

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

Store in a cool, dry well ventilated area and protect from physical damage. Separate from combustible, organic, or other readily oxidizable materials. Avoid storage on wood floors. Prevent contamination with other agents.

**OTHER PRECAUTIONS**

Immediately remove and dispose of any spilled substance.

**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.