

**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 ₃
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 ³	15mg/m ³

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 ₂ 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 ₂ , 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		

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, Sb₂, As₃, As, AsS₂, Ba S, B, Bp, Ca S, F₂, Cu₃ P₂, Ge, Ge S, Sodium acetate, sodium hypophosphite, Ti, Ti S₂, 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.