

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® Stump Remover

Effective Date: January 1, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Stump Remover

COMPANY IDENTIFICATION:

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

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/m3 | 15mg/m3 |

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.

3. PHYSICAL DATA:

BOILING POINT: 1385 degrees F

SPECIFIC GRAVITY: 2.11

VAPOR PRESSURE: Does not apply

PERCENT VOLATILE BY VOLUME: Does not apply

VAPOR DENSITY: Does not apply

EVAPORATION RATE: 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

4. FIRE AND EXPLOSION DATA:

FLASH POINT: Does not apply

FLAMMABLE LIMITS IN AIR (% by volume): Lower: Does not apply; Upper: Does not apply

EXTINGUISHING MEDIA: Dry chemical, CO2, Halon, or flood with water.

AUTO IGNITION TEMPERATURE: Not determined

UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition of material releases oxygen, if contained, 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 nearby containers and structures exposed to fire. Cool containers with water and move from area, if possible. Apply water in flooding quantities from as far a distance as possible. Keep run-off away from water sources and sewers.

5. HEALTH INFORMATION:

PRIMARY ROUTE(S) OF EXPOSURE AND TARGET ORGANS: Skin or eye contact, ingestion, inhalation

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

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.

CHRONIC OVER EXPOSURE: Anemia, nephritis and methemoglobinemia.

MEDICAL CONDITIONS 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: No

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IARC: No

OSHA: 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 by 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.

6. REACTIVITY DATA:

STABILITY: This is a stable material.

CONDITIONS TO AVOID: Excessive temperatures and contamination.

INCOMPATIBILITY (MATERIALS TO AVOID): Wood, cloth, or organic materials; reducing agents: Sb, Sb₂, As₃, As, As₂S₃, 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 PRODUCT: Thermal decomposition will produce toxic oxides of nitrogen and potassium.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Does not apply

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.

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.

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.

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.