

# 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

Effective Date: May 24, 2012

## Hi-Yield® Herbicide Granules containing Treflan

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Hi-Yield® Herbicide Granules containing Treflan  
**EPA No.:** 7401-349-10159

#### COMPANY IDENTIFICATION:

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

### 2. HAZARDOUS IDENTIFICATIONS:

HAZARDOUS COMPONENT	CAS NO.	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Trifluralin [1]	1582-09-8	1.47	NE	NE
Xylene [1]	1330-20-7	1.03	100 ppm	100 ppm
Ethyl benzene [1]	100-41-4	<0.1	100 ppm	100 ppm
Naphtalene [1]	91-20-3	<0.1	10 ppm	10 ppm

[1] NOTE: This is a toxic chemical and is subject to the reporting requirements of section 313 Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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.

NE: Not Established

### 3. PHYSICAL DATA:

**Boiling Point:** 280°F / 138°C  
**Specific Gravity (H<sub>2</sub>O=1):** Not Determined  
**Vapor Pressure (mm Hg):** 7.0mm Hg  
**Percent Volatile by Volume (%):** Not Determined  
**Vapor Density (Air=1):** 1.06-1.07 @ 77°F / 25°C  
**Evaporation Rate (butyl acetate):** Not Established  
**Solubility in Water:** Emulsifies in water  
**Reactivity in Water:** Will not evolve flammable or toxic gases.  
**Appearance and Odor:** Granular with dusty odor.

### 4. FIRE AND EXPLOSION DATA:

**Flash Point:** 114-119°F / 45°C-48°C  
**Flammability Limits:** **Lower:** 1.2 + .1mol @ 203°F **Upper:** Not Established  
**Extinguishing Media:** Water, dry chemical, CO<sub>2</sub>.  
**Auto Ignition Temperature:** 554°F / 290°C  
**Unusual Fire and Explosion Hazards:** Closed containers may explode due to pressure build-up when subject to excessive heat or intense fire.  
**Special Fire Fighting Procedures:** Will emit toxic fumes as it burns. Wear full protective clothing and use self-contained breathing apparatus. Nonessential personnel should be restricted from area of intense smoke. Do not allow water run-off from fire site to enter nearby streams, ponds or lakes. Keep containers cooled with water supply. Utilize self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode.

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### 5. HEALTH INFORMATION:

**Primary Routes of Exposure and Target Organs:** Inhalation, skin or eye contact, ingestion.

**Signs and Symptoms of Exposure:**

(1) Acute Overexposure: Inhalation may result in irritation of the mucous membranes. Skin contact or eye contact may result in irritation. Inhalation or ingestion may cause nausea, vomiting, cramping, diarrhea, dizziness, headache, and other central nervous system effects, fever, and/or chills, muscle aches or weakness.

(2) Chronic Overexposure: Extreme overexposure may result in collapse, coma and death. Eye contact may cause irritation and possibly corneal burns. Trifluralin is a skin sensitizer.

**Medical Conditions Generally Aggravated by Exposure:** Disorders of the skin, eyes, heart, lungs and respiratory system.

**Chemical/Component Listed as Carcinogen or Potential Carcinogen:** None

**NTP:** No      **IARC:** No      **OSHA:** No

**Other Exposure Limits:**

ACGIH TLV for nuisance dusts = 10 mg/m<sup>3</sup>; OSHA PEL for nuisance dusts = 15mg/m<sup>3</sup>

**Emergency and First Aid Procedures:**

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

**Eye or Skin Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse.

**Ingestion:** Do not induce vomiting. Call a physician or poison control center. If available, administer activated charcoal (6 to 8 heaping teaspoons) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

### 6. REACTIVITY DATA:

**Stability:** Stable

**Conditions to Avoid:** Becomes unstable in sunlight and artificial light.

**Incompatibility:** Heat or flame, strong oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition may produce corrosive fumes of hydrogen fluoride, toxic oxides of nitrogen, and oxides of carbon.

**Hazardous Polymerization:** Will not occur

### 7. SPILL OR LEAK PROCEDURES:

**Steps to be taken in case material is leaked or spilled:** Sweep or shovel up spilled materials and place in a labeled container or the original container. Do not contaminate any body of water. Prohibit use of hot or sparking equipment in immediate area. 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.

### 8. PERSONAL PROTECTIVE INFORMATION:

**Respiratory Protection:** NIOSH/MSHA approved respiratory devices to protect against particulate and organic vapors.

**Ventilation:** General or local exhaust to maintain exposure below TLV/PEL.

**Protective Gloves:** Utilize impervious gloves to prevent skin contact.

**Eye Protection:** Splash-proof or dust resistant safety goggles to prevent eye contact with this substance. Contact lenses should not be worn.

**Other Protective Clothing or Equipment:** When necessary utilize impervious clothing and other equipment to prevent skin contact with this substance.

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### 9. SPECIAL PRECAUTION:

**Precautions to be taken in handling and storing:** Store in original container only. Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry area away from ignition sources.

**Other precautions:** Not determined.

### 10. TRANSPORTATION INFORMATION:

DOT Classification: Not regulated by DOT or IMDG.

### 11. 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.