

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® Crabgrass Control

Effective Date: May 23, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Crabgrass Control

FORMULA: Mixture

EPA #: 62719-137-7401

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)
N-butyl-N-ethyl, alpha, alpha, alphas-trifluoro-2, 6-dinitro-p-toluidine	1861-40-1	1.33	Not established	Not established
alpha, alpha, alpha-Trifluoro-2, 6-dinitro-N, N-dipropyl-p-toluidine (Trifluralin)*	1582-09-8	0.67	Not established	Not established

* This substance is subject to the reporting requirements of Section 313 of 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.

3. PHYSICAL DATA:

BOILING POINT (°F) Does not apply	SPECIFIC GRAVITY (H ₂ O=1) Not established	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 Insoluble		REACTIVITY IN WATER Does not apply
APPEARANCE AND ODOR Granular; slight aromatic odor		

4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F) Does not apply	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Does not apply</u> Upper: <u>Does not apply</u>	
EXTINGUISHING MEDIA Dry chemical, carbon dioxide, halon, water spray, foam		AUTO IGNITION TEMPERATURE Does not apply
UNUSUAL FIRE AND EXPLOSION HAZARDS If product is involved in fire, noxious, toxic fumes may be produced.		
SPECIAL FIRE FIGHTING PROCEDURES None		

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5. HEALTH INFORMATION:

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Eyes, skin, gastrointestinal tract, ingestion

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

Possible eye and skin irritation. There have been no reports of significant exposure of workers to Trifluralin Technical. There is extensive field experience involving a variety of TREFLAN (trifluralin) products, some of which contain organic solvents. Events cannot be easily categorized in relation to the various product forms. The more commonly reported adverse effects following exposure to TREFLAN products are skin irritation and rash; nausea, vomiting, cramping, and diarrhea, eye irritation, dizziness, headache, and other minor central nervous system effects; fever and or chills; and muscle aches or weakness. Except for some reports of skin or eye irritation, it is difficult to establish a cause/effect relationship.

(2) CHRONIC OVEREXPOSURE

The following effects were reported in chronic, teratogenic, and reproductive toxicity studies in laboratory animals, where experimental dosage levels and duration of exposure were far in excess of those likely to occur in humans. Studies were conducted at exposures as high as 800,000 times greater than the expected exposure of applicators using TREFLAN. Chronic Toxicity- Growth retardation, reduced food consumption, reduced survival, increased liver weights and kidney toxicity. Teratology & Reproduction- Not teratogenic. No impairment of reproductive capacity. Fetotoxic only at maternally toxic doses in studies. Mutagenicity- Not mutagenic in either bacterial or mammalian cells. Carcinogenicity-NCI-Evidence of carcinogenicity (invalid study due to nitrosamine impurity). EPA-Class C- possible human carcinogen (limited evidence from animal studies). Toxicological studies support noncarcinogen status. Not listed as a carcinogen or potential carcinogen by ACGIH, IARC, NTP, or OSHA. Technical trifluralin may cause skin sensitization reaction in certain individuals.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of the skin, eyes and central nervous system.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP

☐ YES ☒ NO

IARC

☐ YES ☒ NO

OSHA

☐ YES ☒ NO

OTHER EXPOSURE LIMITS

None determined

EMERGENCY AND FIRST AID PROCEDURES

EYE OR SKIN CONTACT: Flush with plenty of water for at least 15 minutes and get medical attention. Wash contaminated skin with soap and water. INGESTION: Do not induce vomiting. Give milk or water. Never give anything by mouth to an unconscious person. Call a physician. Harmful if swallowed. Keep out of reach of children.

6. REACTIVITY DATA:

STABILITY

☐ Unstable ☒ Stable

CONDITIONS TO AVOID

None

INCOMPATIBILITY (Materials to Avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may produce toxic gases

HAZARDOUS POLYMERIZATION

☐ May Occur ☒ Will Not occur

CONDITIONS TO AVOID

None

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7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Sweep into labeled container and seal. Do not flush with water.

WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulations. Triple rinse containers prior to disposal.

8. PERSONAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION

Utilize NIOSH/MSHA approved respiratory protection as necessary to provide protection against pesticides.

VENTILATION

Use in well-ventilated area.

PROTECTIVE GLOVES

Utilize impermeable gloves

EYE PROTECTION

Use safety glasses to prevent eye contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Use protective clothing such as coveralls, a long sleeved shirt, and impermeable gloves when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Do not store or transport with food, feed, or seed. Do not store near heat or open flames.

OTHER PRECAUTIONS

Not determined.

10. TRANSPORT INFORMATION:

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.