



## VOLUNTARY PURCHASING GROUPS, INC.

### Safety Data Sheet Hi-Yield® Crabgrass Control

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#### SECTION 1: Identification

##### Product identifier

Product name Hi-Yield® Crabgrass Control

Product number

##### Other means of identification

EPA #62719-137-7401

##### Supplier's details

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

Telephone 855-270-4776

##### Emergency phone number(s)

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

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#### SECTION 2: Hazard identification

##### Classification of the substance or mixture

##### GHS label elements, including precautionary statements

##### Hazard statement(s)

H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H320 Causes eye irritation

##### Precautionary statement(s)

P102 Keep out of reach of children.

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#### SECTION 3: Composition/information on ingredients

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### Substances

#### Hazardous components

Component	Concentration
N-butyl-N-ethyl, alpha, alpha, alphas-trifluoro-2, 6-dinitro-p-toludine (CAS no.: 1861-40-1)	Not specified
Trifluralin [1] TLV: NE PEL: NE (CAS no.: 1582-09-8)	Not specified

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice	Call a poison control center or doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur, seek medical attention immediately.
If inhaled	Move person to fresh air. If person is not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a poison control center or doctor for treatment advice.
In case of skin contact	Take off contaminated clothing. Wash skin with soap and plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing separately before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.
In case of eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
If swallowed	Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a doctor or poison control center. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Personal protective equipment for first-aid responders	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to section 8 for specific personal protective equipment.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Dry chemical, carbon dioxide, halon, water spray, foam

### Specific hazards arising from the chemical

If product is involved in fire, noxious, toxic fumes may be produced.

### Special protective actions for fire-fighters

Wear pressure-demand, self-contained breathing apparatus, MSHA/NIOSH approved or equivalent, and full protective gear. Avoid inhalations of fumes and dusts.

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### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Respiratory Protection: NIOSH/MSHA approved for protection against toxic dusts containing quartz.

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

Protective Gloves: PVC or Neoprene.

Eye Protection: Safety glasses or goggles (ANSI Z87.1 1979)

Other Protective Clothing or Equipment: Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact.

#### Environmental precautions

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

Thermal decomposition may produce toxic gases

#### Methods and materials for containment and cleaning up

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

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### SECTION 7: Handling and storage

#### Precautions for safe handling

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

Use in well-ventilated area. Utilize impermeable gloves. Use safety glasses to prevent eye contact.

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

#### Conditions for safe storage, including any incompatibilities

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

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### SECTION 8: Exposure controls/personal protection

#### Appropriate engineering controls

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

#### Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face protection

Safety glasses or goggles (ANSI Z87.1 1979)

##### Skin protection

PVC or Neoprene gloves

##### Body protection

Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact.

Eye wash and shower facilities should be available.

##### Respiratory protection

NIOSH/MSHA approved for protection against toxic dusts.

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### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance/form

Granular

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Odor	Slight aromatic odor
Odor threshold	
pH	
Melting point/freezing point	
Initial boiling point and boiling range	Does not apply
Flash point	Does not apply
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	Does not apply
Vapor density	Does not apply
Relative density	
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

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### SECTION 10: Stability and reactivity

#### Reactivity

Polymerization will not occur

#### Chemical stability

Stable

#### Possibility of hazardous reactions

Thermal decomposition may produce toxic gases

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

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.

##### Skin corrosion/irritation

Disorders of the skin, eyes and central nervous system.

##### STOT-single exposure

Eyes, skin, gastrointestinal tract, ingestion

##### STOT-repeated exposure

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.

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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. Matagenicity- 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 noncatcinogen 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.

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### SECTION 12: Ecological information

#### Toxicity

None known.

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### SECTION 13: Disposal considerations

#### Disposal of the product

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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### SECTION 14: Transport information

#### DOT (US)

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

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### SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

#### SARA 313 Components

Tirfluralin 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.

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### SECTION 16: Other information

Voluntary Purchasing Groups, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the

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manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.