

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC – Day or Night 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Trust Herbicide
Synonyms: Trifluralin: alpha, alpha, alpha-trifluoro-2,6-dinitro-N-Ndipropyl-p-toluidine
EPA Reg. No.: 1381-146
Company ID: Winfield Solutions, LLC
PO Box 64589
St. Paul, MN 55164-0589
Phone #s: Emergency Phone Number - CHEMTREC (day or night): 1-800-424-9300
For Medical Emergency - Call 1-877-424-7452
Date: 02/17/09 Supersedes: 11/04/07

2. COMPOSITION INFORMATION ON INGREDIENTS

	<u>Component</u>	<u>CAS Reg. No.</u>	<u>% by weight</u>
Chemical Ingredients: Active Ingredient:	Trifluralin	1582-09-8	43
Other Ingredients:			57
	See Section 8 for Personal Protection Equipment (PPE).		

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance & Odor: Clear orange liquid with an aromatic odor.

Warning Statements: This is a herbicide that contains benzene compounds such as naphthalene and benzene which has caused cancer in some laboratory animals. Harmful if swallowed, inhaled or absorbed through the skin. Product may cause skin sensitization in certain individuals. Product is toxic to fish, wildlife and avian. Closed containers may explode due to pressure build-up when subjected to excessive heat or fire. Toxic fumes are released in fire situations.

POTENTIAL HEALTH HAZARD EFFECTS

Eye Contact: May cause moderate irritation.
Skin Contact: Short single exposure may cause skin Irritation, it may cause drying and flaking of skin
Ingestion: Single dose oral toxicity is considered to be low.
Inhalation: Single exposure to vapors is not likely to be hazardous. Remove to fresh air. If a person is not breathing, call 9-1-1 or an ambulance, then administer artificial respiration, preferably mouth-to-mouth.

4. FIRST AID MEASURES

If in Eyes: Rinse with a large amount of running water for at least 15 minutes. Hold eyelids apart to rinse the entire surface of the eyes and lids. Seek medical attention.
If on Skin: Remove contaminated clothing. Rinse skin immediately with plenty of soap and water for 15 minutes, include hair and under fingernails.
If Swallowed: If swallowed seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
If Inhaled: Remove to fresh air. If not breathing, call 9-1-1 and provide mouth-to-mouth resuscitation. Seek medical help if breathing is difficult.
Note to Physician: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

AgriSolutions**5. FIRE FIGHTING MEASURES**

Flash Point: Greater than 119 gallons 210 °F.

Flammable Limits: Lower flammable limit 1.5% Upper flammable limit 11.8%

Extinguishing Media: Use carbon dioxide or dry chemical, water fog, foam, or foam.

Special Fire Fighting Procedures: Provide for the protection of the employees and residents: a.) Evacuate residents who are downwind of fire; b.) Prevent unauthorized entry to the fire area; c.)

Persons who may have been exposed to contaminated smoke should be examined by a physician and treated appropriately;) dike area to prevent runoff and contamination of water sources. Notify local authorities that firemen should, wear self-contained breathing apparatus with full protection clothing, be immediately relieved from duty, if exposed to contaminated smoke and checked for symptoms of poisoning. These should not be mistaken for heat exhaustion or smoke inhalation. See section 11 for toxicological data.

Unusual Fire or Explosion Hazards: Thermal decomposition products may be hazardous. These include oxides of nitrogen, carbon and fluorinated hydrocarbons.

6. ACCIDENTAL RELEASE MEASURESIn Case of Spill or Leak

Wear chemical safety glasses with side shields or chemical goggles, waterproof gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved pesticide respirator or air-supplied respirator. For small spills, sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a disposal container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue.

Do not allow wash water to contaminate water supplies.

Check with local, state and federal regulations prior to disposal.

7. HANDLING AND STORAGE

Protect from excessive heat. Store in a cool, dry place away from children, food, feed and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Face shield, goggles, safety shower and eyewash should be accessible.

Skin Contact: To avoid skin contact, wear chemical resistant gloves and boots, coveralls or long-sleeved shirt, long pants and chemical resistant head covering for overhead protection. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product concentrate.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washing, use detergent and hot water. Keep and wash PPE separately from other laundry.

Respiratory Protection: A respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approved prefix TC-23C_) or canister approved for pesticides (MSHA/NIOSH approved prefix TC-14C) or NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an N, R, P or HE pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear deep orange liquid.

Odor: Aromatic odor

Solubility: Emulsifies in water

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Trust Herbicide

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Specific Gravity: 1.12
pH (aqueous 50/50) 5.0 to 8.0
Boiling Point: 450 to 527 °F
Vapor Pressure(solvent) < 1torr @ 68 °F
Vapor Density (solvent) 4.7 relative to air

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions
Conditions to Avoid: Excessive heat and freezing.
Materials to avoid: Strong oxidizers.
Hazardous Decomposition Products:
Oxides of carbon, nitrogen, and fluorinated hydrocarbons.
Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Eye Irritation: Moderate irritant
Skin Irritation: Mild irritant
Dermal Sensitization: A sensitizer
Acute Oral LD₅₀ (rat): 3700mg/kg
Acute Dermal LD₅₀ (rat): >5000mg/kg
Acute Inhalation LC₅₀(4hr rat): 5.59 mg/L (male rats)
>6.05 mg/L (female rats)
Exposure Limits: ACGIH (TLV) OSHA (PEL)
Trifluralin Not determined Not determined

Carcinogenicity, teratogenicity, and mutagenicity: not listed by NTP or IARC.
The target organs reported for trifluralin in animals are blood, kidney, and liver.
Cataracts and other eye effects have been reported in humans repeatedly exposed to naphthalene.

12. ECOLOGICAL INFORMATION

Environmental fate:
Movement and Partitioning:
Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5)
Potential for mobility in soil is slight (KOC between 2000 and 5000)
Degradation & Persistence:
Based on the stringent test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.
Ecotoxicology:
Material is very highly toxic to aquatic organisms on an acute basis (LC₅₀/EC₅₀ in most sensitive species).

13. DISPOSAL CONSIDERATIONS:

Disposal

Do not contaminate food, feed or water by storage or disposal. Wastes are toxic. Improper disposal or excess pesticide, spray mixture or rinsate is a violation of Federal Law. If wastes resulting from the use of this product

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cannot be disposed of according to label instructions, check the local, state and Federal health and environmental regulations.

Waste disposal

If wastes cannot be disposed of by use according to label instructions, contact the local, state and federal agency for guidance.

Steps to be taken if material is released or spilled

Wear proper PPE found in section 8. Sweep up as much as possible and dispose of properly.

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in the Handling and Storage Section, Section 7 of this MSDS.

DOT Classification:

Packages containing 2.5 gallons or more:

UN3082, Environmentally Hazardous Substance, Liquid, N.O.S., 9, III, RQ (Trifluralin)

15. REGULATORY INFORMATION

SARA Hazard Notification/Reporting

Immediate Y Fire Y*/N Sudden Release of Pressure N

Delayed Y Reactive N

*For less than 119 gallons:

Immediate

SARA Title 313, Toxic chemicals: Trifluralin 1582-09-8 43%

Section 302-304 (40CFR 350): None

Extremely hazardous substance (EHS): Trifluralin (CAS: 58-89-9)

SARA/OSHA Hazardous chemical reporting quantity: 10 pounds for trifluralin.

RCRA Hazardous waste: None

16. OTHER

Reasons for revision: Combined MSDS.

National Fire Protection Association (NFPA)/Hazardous Materials Identification System (HMIS)

NFPA		HMIS	
	0 Least		
2 Health	1 Slight	2	Health
2 Flammability	2 Moderate	2	Flammability
1 Instability	3 High	1	Reactivity
	4 Severe	H	PPE

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