

MATERIAL SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: Trust 10 G

COMPANY IDENTIFICATION: 24-Hour Emergency Telephone Number:
(U.S.) 800-424-9300

Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164-0589

DATE PREPARED: 09/18/2007

EPA #: 62719-131-1381

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Trifluralin: CAS# 001582-09-8 10%

alpha,alpha,alpha-trifluoro- 2,6-N,N-dipropyl-p-toluidine

Proprietary Ingredients, Total, Including: 90% Clay CAS# 008031-18-3

May contain Crystalline Silica CAS# 014808-60-7

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR) 1910.1200). In addition, other substances not Hazardous per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

3. HAZARDOUS IDENTIFICATIONS:

EMERGENCY OVERVIEW

Hazardous chemical. Sage green granule with a mild aromatic odor. May cause moderate eye irritation with corneal injury. LD50 for skin absorption in rabbits is >2000 mg/kg. Avoid breathing dust. May contain crystalline silica, which is listed by NTP and IARC as a potential carcinogen. Highly toxic to aquatic organisms.

EMERGENCY PHONE NUMBER: (U.S.) 800-424-9300

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

EYE: May cause moderate irritation with corneal injury

SKIN: Prolonged exposure not likely to cause significant skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is >2000 mg/kg. Did not cause allergic skin reactions when tested in guinea pigs.

INGESTION: Single dose oral toxicity is low. Single dose oral LD50 has not been determined. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing larger amounts may cause injury.

INHALATION: Dust may cause irritation to upper respiratory tract. (nose and throat).

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Trifluralin, in animals, has been shown to cause kidney, blood, and slight liver effects. Repeated excessive exposures to dust may cause upper respiratory tract irritation. May contain silica which may cause lung effects with repeated excessive exposure.

CANCER INFORMATION: A low incidence of urinary tract tumors was seen in only 1 of 5 chronic studies in rats with trifluralin. It is not anticipated to be a carcinogenic risk. The clay component may contain crystalline silica, which has caused cancer in laboratory animals and is listed as a potential carcinogen by IARC and NTP.

TERATOLOGY (BIRTH DEFECTS): Trifluralin did not cause birth defects; other fetal effects occurred only at doses toxic to the mother.

REPRODUCTIVE EFFECTS: Trifluralin did not interfere with reproduction in animal studies.

4. FIRST AID:

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by

medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES:

FLASH POINT: Not applicable

METHOD USED: Not applicable

FLAMMABLE LIMITS:

LFL: Not applicable

UFL: Not applicable

AUTO-IGNITION TEMPERATURE: No ignition up to 1382F (75°C)

EXTINGUISHING MEDIA: CO₂ or dry chemical.

FIRE AND EXPLOSION HAZARDS: If product is involved in fire, noxious and toxic fumes may be produced.

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES: (See Section 15 for Regulatory Information)

ACTION TO TAKE FOR SPILLS: For small spills, contain and sweep up spilled material. Report large spills to CHEMTREC and consult Winfield Solutions, LLC for assistance. Do not allow spilled material to contaminate water supplies or surface water.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

HANDLING: Keep out of reach of children. Causes eye irritation. Avoid breathing dust and contact with skin, eyes, and clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

STORAGE: Store in original container. See product label for handling/storage precautions relative to the end use of this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINE: Silica, crystalline: ACGIH Threshold Limit Value (TLV) and OSHA Permissible Exposure Limit (PEL) are 0.1 mg/m³ (respirable) for quartz, tripoli, and fused silica; 0.05 mg/m³ (respirable) for cristobalite and tridymite. PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guidelines.

When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator. In dusty atmospheres, use a NIOSH approved dust respirator.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

EYE/FACE PROTECTION: Use chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES:

BOILING POINT: Not applicable

VAPOR PRESSURE: Not applicable

BULK DENSITY: 0.705 g/cm³

SOLUBILITY IN WATER: Not soluble in water

SPECIFIC GRAVITY: Not applicable

APPEARANCE: Free-flowing sage green granule

ODOR: Mild aromatic pH: (aqueous 50/50) 7.7

MELTING POINT: Not applicable

10. STABILITY AND REACTIVITY:

STABILITY: (CONDITIONS TO AVOID) Avoid extreme cold or heat.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) None known

HAZARDOUS DECOMPOSITION PRODUCTS: Will emit toxic vapors as it burns.
HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

For detailed toxicological data, write the address shown in Section 1 or call the emergency phone number.
MUTAGENICITY: For trifluralin: In vitro mutagenicity studies were negative and animal mutagenicity studies were predominantly negative.

12. ECOLOGICAL INFORMATION:

For detailed ecological data, write the address shown in Section 1 or call the emergency phone number.

ENVIRONMENTAL DATA:

MOVEMENT AND PARTITIONING: Based largely or completely on information for trifluralin.

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 AND PERSISTENCE:

Based largely or completely on information for trifluralin. 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: Based largely or completely on information for trifluralin. Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in most sensitive species).

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

14. TRANSPORT INFORMATION:

For DOT regulatory information, if required, consult transportation regulations, product shipping papers, or consult your Winfield Solutions, LLC representative.

15. REGULATORY INFORMATION:

NOTICE: The information herein is presented 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 from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA 313 INFORMATION: This product contains the following substances 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:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
TRIFLURALIN	001582-09-8	10%

(BENZENEAMINE, 2,6-DINITRO-N)

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A delayed health hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>List</u>
TRIFLURALIN (BENZENEAMINE, 2,6-DINITRO-N,N-DI)	001582-09-8	NJ2 = PA3 NJ3 PA1
SILICA - CRYSTALLINE, QUARTZ	014808-60-7	NJ3 PA1

NJ2 = New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%).

NJ3 = New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).

PA1 = Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

PA3 = Pennsylvania Environmental Hazardous Substance (present at greater than or equal to: 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health 2

Flammability 1

Reactivity 0

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:

Category:

<u>Chemical Name</u>	<u>CAS#</u>	<u>RQ</u>	<u>% in Product</u>
Trifluralin	001582-09-8	10	10%

16. OTHER INFORMATION:

MSDS STATUS: New

The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult Winfield Solutions, LLC For Further Information.

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