



# MATERIAL SAFETY DATA SHEET #4041

15885 Sprague Road, Strongsville, OH 44136-1799  
**Emergency Phone:** LESCO: (800) 321-5325  
**CHEMTREC:** (800) 424-9300

**DATE ISSUED 12/07/00**  
**SUPERSEDES 04/03/00**

## I. PRODUCT IDENTIFICATION

**Product:** LESCO TREFLAN 5G/LESCO Ornamental Preemergence Herbicide **Chemical Family:** Dinitroaniline  
**Chemical Name/Synonyms:** Treflan, Trifluralin

## II. PRODUCT INFORMATION: INGREDIENTS

Chemical Name	TLV/TWA	%(by wt.)	CAS#
alpha, alpha, alpha-Trifluoro-2, 6-dinitro-N,N-dipropyl-p-toluidine (Trifluralin)	NE	1.0 - 5.0	1582-09-8
Other ingredients, including the following: kerosene	NE ND	95.0-99.0	Not Listed 8008-20-6

## III. PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>Boiling Point:</b>	NA	<b>Specific Gravity (water=1):</b>	NA
<b>Melting Point:</b>	NA	<b>Bulk Density (lbs./cu. ft.):</b>	ND
<b>Vapor Pressure (mm Hg):</b>	NA	<b>Evaporation Rate:</b>	NA
<b>Vapor Density (air = 1):</b>	NA	<b>Percent Volatile:</b>	NA
<b>Solubility in Water:</b> Not soluble in water		<b>Appearance and Odor:</b> Bright yellow free-flowing granules.	
<b>pH:</b> (aqueous 50/50) 7.7			Aromatic odor.

## IV. FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (method Used):</b>	NA	<b>Auto Ignition Temperature:</b>	NA
<b>Lower Explosion Limits:</b>	NA	<b>Upper Explosion Limits:</b>	NA
<b>NFPA/HMIS RATING:</b> HEALTH 2	FIRE 1	<b>REACTIVITY 0</b>	
<b>Extinguishing Media:</b> <input type="checkbox"/> Foam	<input type="checkbox"/> Alcohol Foam	<input checked="" type="checkbox"/> Dry Chemical	
<input type="checkbox"/> Water Spray	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> CO <sub>2</sub>	

**Special Fire-Fighting Procedures:** Wear NIOSH approved positive pressure, self-contained breathing apparatus. Dry chemical system is preferred because uncontrolled water can spread possible contamination. Prevent run-off from entering drains, sewers or bodies of water.

**Unusual Fire and Explosion Hazards:** Toxic irritating gases may be formed above 160°C(320°F).

## V. HEALTH HAZARDS

**Primary Route(s) of Entry:** Skin, eyes, inhalation, ingestion.

### Signs & Symptoms of Exposure

**Acute:** 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. Rare reports of liver dysfunction or hepatitis are usually in the form of inquiries as to possible relationship. There is no substantial evidence in humans that LESCO TREFLAN (trifluralin) is harmful to the liver. Other events reported are of a diverse variety and constitute singular or rare accounts. Although some may be serious, any possible association with exposure to TREFLAN is extremely remote or non-existent.

**Chronic:** The following effects were reported in chronic, teratogenic and reproductive toxicity studies in laboratory animals where experimental dosage levels and durations of exposure were far in excess of those likely to occur in humans. Studies were conducted at exposures as high as 80,000 times greater than the expected exposure of applicators. 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.

#### Emergency First-Aid Procedures

**Eyes:** Flush eyes with plenty of water and call a physician if irritation develops.

**Skin:** Wash all exposed areas with plenty of soap and water. Wash all contaminated clothing before reuse. Contact a physician if irritation develops.

**Inhalation:** Since LESCO TREFLAN 5G is a granulated formulation, it is not expected to be a hazard by the inhalation route. If breathing difficulty occurs, provide cardiopulmonary resuscitation assistance and get medical attention.

**Ingestion:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**Notes to Physician:** No corroborative information is available that would establish the aggravation of a medical condition by exposure to LESCO TREFLAN 5G; however, it is a reasonable assumption that highly allergic individuals would be at a somewhat greater risk for demonstrating an allergic reaction when exposed.

#### Toxicity Information:

**Oral LD<sub>50</sub>:** >500 mg/kg (acute-rat) no deaths **Dermal LD<sub>50</sub>:** >2000 mg/kg no deaths (acute-rabbit)

**Inhalation LC<sub>50</sub>:** not expected to be an inhalation hazard **Eye Irritation:** Yes, rabbit

**Skin Irritation:** Nonirritant

Positive Teratogen or Mutagen Carcinogen(NTP): No

Potential Carcinogen (IARC or OSHA): No

## VI. REACTIVITY

**Stability:**  Stable  Unstable

**Conditions to Avoid:** None known

**Incompatibility:** None known

**Hazardous Decomposition Products:** Will emit toxic vapors as it burns.

**Hazardous Polymerization:**  Will not occur  Will occur

## VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

**If material is spilled:** Sweep, vacuum or shovel material into a container for reuse or disposal. Do not allow product to contaminate drains, sewers, streams, ditches or bodies of water. Prevent large quantities from contacting vegetation. Keep animals away from large spills. This product is toxic to fish.

**Waste Disposal Method:** Dispose according to Federal EPA procedures as outlined in the Resource Conservation Recovery act (RCRA) and follow state and local guidelines. Be certain that containers are completely empty before disposal.

## VIII. SPECIAL PROTECTION INFORMATION

#### Protective Equipment Suggested for Outdoor Application:

Impervious Gloves  Dust Mask  Respirator (use NIOSH/MSHA approved)

Impervious Boots  Clean Clothing  Eye Goggles / Safety Glasses

#### Protective Equipment Suggested for Confined Areas:

Sufficient Ventilation  Respirator (use NIOSH/MSHA approved)

Dust Mask  Splash Goggles/Safety Glasses

Eyewash Station  Emergency Shower  Impervious Apron

**IX. STORAGE AND HANDLING**

**Precautions:** Store in a cool, dry place if possible. Separate from other pesticides, fertilizers, seed, feed, foodstuffs, and away from drains, sewers, and water sources.

**Other Precautions:** Keep out of reach of children. Practice good care and good safety precautions when handling this product. Avoid contact with eye, skin and clothing. Avoid breathing dust. Store in temperature below 100° F(38° C). Do not swallow. Wash thoroughly after handling.

**X. FEDERAL REGULATORY INFORMATION:****SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES**Y Immediate (Acute) Health

SEC 302: NA

N Delayed (Chronic) Health

SEC 304: NA

N Fire

SEC 313: NA

N Sudden Release of Pressure

CERCLA RQ: NA

N Reactivity

CAA RQ: NA

EPA Reg. No.: 62719-98-10404  
9198-60-10404

HM 181 Shipping Name: Not Regulated.

NA = Not Applicable      ND = Not Determined

Preparation and distribution of this Material Safety Data Sheet done by LESCO, Inc., 15885 Sprague Road, Strongsville, OH 44136-1799, pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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**For further information, contact: LESCO, Inc., • 15885 Sprague Road, Strongsville, OH 44136-1799 or (800) 321-5325.**

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