



MATERIAL SAFETY DATA SHEET #4312

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SUPERSEDES: 06/13/00

I. PRODUCT IDENTIFICATION

Product: LESCO® Team® with Fertilizer, Team® Pro + Fertilizer **Chemical Family:** Dinitroaniline Herbicide

Chemical Name/Synonyms: Benefin plus Trifluralin

II. PRODUCT INFORMATION: INGREDIENTS

Chemical Name	TLV/TWA	%(by wt.)	CAS#
Trifluralin; alpha, alpha, alpha-Trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine	ND	0.31-0.43	1582-09-8
Benefin; N-butyl-N-ethyl-alpha, alpha, alpha-trifluoro-2,6-dinitro-p-toluidine	ND	0.43-0.84	1861-40-1

Formulated with one or more of the following ingredients. Check specific product label.

Urea	10 mg/M ³ (dust) 5 mg/M ³ (resp)	0-99.5	57-13-6
Potassium Chloride	10 mg/M ³	0-95	7447-40-7
Potassium Sulfate	10 mg/M ³	0-95	7778-80-5
Monoammonium Phosphate	15 mg/M ³ (dust) 5 mg/M ³ TLV	0-95	7722-76-1
Diammonium Phosphate	15 mg/M ³ (dust) 5 mg/M ³ (resp)	0-95	7783-28-0
Ammonium Sulfate	15 mg/M ³ (dust)	0-95	7783-20-2
Calcium Carbonate	ND	0-95	1317-65-3
Sulfur	5 ppm(SO ₂)	0-20	7704-39-9
Iron Oxide	15 mg/M ³ (dust)	0-10	1309-37-1
Iron Sulfate	15 mg/M ³ (dust)	0-10	7728-78-7
Manganese Oxide	15 mg/M ³ (dust)	0-10	1317-35-7
Magnesium Sulfate	15 mg/M ³ (dust)	0-10	7478-88-9

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: NA	Specific Gravity (water=1): NA
Melting Point: 133° C(urea)	Bulk Density (lbs./cu. ft.): 45-65
Vapor Pressure (mm Hg): NA	Evaporation Rate: NA
Percent Volatile: NA	Vapor Density (air = 1): NA
Solubility in Water: Team is not soluble	Appearance and Odor: Light yellow free flowing granules. Slight aromatic odor.
pH: (Aqueous 50/50) 7.5-8.5	

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (method Used): NA	Auto Ignition Temperature: NA	
Lower Explosion Limits: NA	Upper Explosion Limits: NA	
NFPA/HMIS RATING: HEALTH 2	FIRE 1	REACTIVITY 0
Extinguishing Media: <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 ₂

Special Fire-Fighting Procedures: Wear NIOSH approved positive pressure, self-contained breathing apparatus. Prevent run-off from entering drains, sewers or bodies of water. Fertilizer will become slippery when wet. Guard against falls.

Unusual Fire and Explosion Hazards: Toxic irritating gases may be formed above 160°C(320°F). At high temperatures, nitrogen containing fertilizer can form cyanuric acid, hydrogen cyanide and ammonia. Ammonium carbamate may also be formed. Contamination with strong acids may create an explosion hazard.

V. HEALTH HAZARDS

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

Signs & Symptoms of Exposure

Acute: Trifluralin, the more commonly reported adverse effects following exposure to 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 Trifluralin is harmful to the liver. Benefin - From field experience with products containing benefin, some of which contain organic solvents, there have been reports of nausea, headache, rash, eye irritation, and dyspnea. Rare or singular events also reported: fever, paresthesia, drowsiness, aplastic anemia, chills, anaphylactoid reaction, syncope, abdominal cramping, coughing, liver pain, loss of memory, diaphoresis, mouth burning, hand burning, face edema, loss of taste, muscle spasm and dizziness.

Chronic: Growth retardation, reduced food consumption, reduced survival, increased liver weights and kidney toxicity. Not teratogenic. No impairment of reproductive capacity. Fetotoxic only at maternally toxic doses in studies. Not mutagenic in either bacterial or mammalian cells.

Emergency First-Aid Procedures

Eyes: Immediately 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: Coarse granular particles make inadvertent inhalation unlikely. If discomfort occurs, move individual to fresh air. If breathing difficulty occurs, provide cardiopulmonary resuscitation assistance and get medical attention.

Ingestion: If swallowed, call a physician or a Poison Control Center. Drink promptly a large quantity of milk, egg white, gelatin solution or if these are not available, take quantities of water. Avoid alcohol. 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 Team. Animal studies indicate that benefin may be a potential contact sensitizer but this has not been shown to occur under normal conditions of use. Highly allergic individuals should take special precautions to avoid skin contact with Team or breathing of dust.

Toxicity Information:

Oral LD₅₀: Acute(rat):>10,000 mg/kg **Dermal LD₅₀:** Acute (Rabbit): >2000 mg/kg

Inhalation LC₅₀: This formulation is not considered to be an inhalation hazard due to the coarse, granular nature and its low potential for aerosolization. **Eye Irritation:** Irritant (rabbit) **Skin Irritation:** Nonirritant (rabbit)

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. Urea can cause cyanuric gas to be formed in a fire. Urea also decomposes to biuret and cyanuric acid. Urea reacts with sodium or calcium, hypochlorite to form explosive nitrogen trichloride.

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. 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. Wash thoroughly after handling. Do not apply directly to water or wetlands (swamps, bogs or marshes). Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water when disposing of equipment washwaters.

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: Trifluralin

N Sudden Release of Pressure

CERCLA RQ: NA

N Reactivity

CAA RQ: 1 lb. (Trifluralin)

EPA Reg. No.: 10404-53, 10404-56, 10404-57, 62719-151-10404, 62719-289-10404

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, Ohio 44136-1799, pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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