

SAFETY DATA SHEET

LESCO Talstar Insecticide Plus Fertilizer

1. IDENTIFICATION

Product name: **LESCO Talstar 0.069%, 0.073%, 0.096%
Insecticide Plus Fertilizer**

Product type: Granular Insecticide with Fertilizer

EPA Registration No.: 279-3216-10404; 279-3227-10404; 279-3201-10404

Chemical name of active ingredient(s): Bifenthrin: (2-methyl[1,1'-biphenyl]-3-yl)-methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl cyclopropanecarboxylate

Manufacturer/Registrant: LESCO, Inc.
1385 East 36th Street
Cleveland, OH 44114

For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300

For medical emergencies and health and safety inquiries, contact Safety Call: Phone: 1-866-897-8050

Poison Control Center Phone: 1-800-222-1222

2. HAZARDS IDENTIFICATIONS

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Toxicity:

	Acute oral	Acute dermal	Acute inhalation	Eye irritation	Skin irritation	Skin Sensitization
Category	NC	NC	NC	NC	NC	NC

NC: Not classified

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

- Cause skin irritation

PICTOGRAM:



PRECAUTIONARY STATEMENTS:

- Wash hand thoroughly after handling. Wear protective gloves. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse.
- Contact Safety Call[®] International for emergency medical treatment at (866) 897-8050.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Bifenthrin	82657-04-3	0.069-	NA	NA	NA	NA
Urea	57-13-6	0-95	10 mg/m ³ (Dust)	5 mg/m ³ (Respirable)	NA	NA

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Potassium Sulfate	7778-80-5	0-95	10 mg/m ³	NE	NA	NA
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Calcium Carbonate	1317-65-3	0-95	15 mg/m ³ (Dust)	NE	NA	NA
Methylene Urea	9011-05-6	0-60	5 mg/m ³ (Dust)	NE	NA	NA
Monoammonium Phosphate	7722-76-1	0-60	15 mg/m ³ (Dust)	5 mg/m ³ (TLV)	NA	NA
Diammonium Phosphate	7783-28-0	0-50	15 mg/m ³ (Dust)	5 mg/m ³ (TLV)	NA	NA
Sodium bentonite	1302-78-9	0-50	15 mg/m ³ (Dust)	NE	NA	NA
Potassium Chloride	7447-40-7	0-20	10 mg/m ³ (Dust)	NE	NA	NA
Ammonium Sulfate	7783-20-2	0-30	15 mg/m ³ (Dust)	NE	NA	NA
Iron (Ferrous) Sulfate	7720-78-7	0-10	15 mg/m ³ (Dust)	NE	NA	NA
Manganese Oxide	1344-43-0	0-10	15 mg/m ³ (Dust)	NE	NA	NA
Magnesium Oxide	1309-48-4	0-10	15 mg/m ³ (Dust)	NE	NA	NA
Iron (Ferric) Oxide	1309-37-1	0-10	15 mg/m ³ (Dust)	NE	NA	NA
Iron (Ferrous) Oxide (Iron Sucrate)	8047-67-4	0-10	NA	NE	NA	NA
Magnesium Sulfate	7487-88-9	0-10	15 mg/m ³ (Dust)	NE	NA	NA
Sulfate of Potash-Magnesium	14977-37-8	0-20	NE	NE	NA	NA
Manganese Sulfate	7785-87-7	0-15	5 (mg(Mn)/ m)	0.2 (mg(Mn)/m) (TWA)	NA	NA
Sulfur	7704-34-9	0-5	5ppm (SO ₂)	NE	NA	NA
Zinc Oxide	1314-13-2	0-10	15 (mg/m ³)	10 (mg/m ³) (TLV)	NA	NA
Zinc Sulfate	7733-02-0	0-10	NA	NA	NA	NA

NA=Not available; NA=Not applicable.

4. FIRST AID MEASURES

FIRST AID	
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this product, contact the National Pesticide Information Center, 1-800-858-7378, Monday-Friday, 7:30 AM-3:30 PM PST. You may also contact the National Poison Control Center 1-800-222-1222, day or night, for emergency medical treatment information or SafetyCall® at (866) 897-8050.</p>	
NOTE TO PHYSICIAN	

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This product is a pyrethroid. If large amounts have been ingested, milk, cream or other digestible fats and oils may increase absorption and so to be avoided.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Water fog, CO₂, foam, dry chemical.

FIRE & EXPLOSION HAZARDS: Slightly combustible. This material may support combustion at elevated temperatures.

FIRE-FIGHTING PROCEDURES: Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing.

HAZARDOUS DECOMPOSITION PRODUCTS: If heated to decomposition, may give off ammonia and formaldehyde, as well as oxides of sulfur, manganese, magnesium, iron, potassium and phosphorus. Urea can yield cyanuric acid or biuret upon heating. Dispersion of fine dust in the air may form an explosive mixture.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: If material is spilled, isolate and post spill area. Wear protective clothing and personal protective equipment as noted in Section 8. Keep unprotected persons and animals out of the area. Keep material out of lakes, streams, ponds and sewer drains. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal. To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e. methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13.

7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage or disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING: Do not use or store near heat, open flame or hot surfaces. Carefully open containers and after partial use close container tightly. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PRECAUTIONS TO BE TAKEN IN STORAGE: Keep out of reach of children and animals. Store in a cool, dry, well-ventilated area. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures. Avoid exposure to extreme temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Protective eyewear or chemical safety glasses with side shields or chemical

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goggles when working in non-ventilated spaces.

SKIN PROTECTION: Long-sleeve shirt, long pants, shoes plus socks.

HAND PROTECTION: Wear chemical protective gloves made of materials such as rubber or neoprene. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

RESPIRATOR REQUIREMENTS: All pesticide handlers must wear a respiratory protection device when working in a non-ventilated space. Use one of the following: NIOSH-approved respirator with an R, P, or HE filter or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

VENTILATION: Adequate ventilation should be used to minimize the need for personal protective equipment.

WORK HYGIENIC PRACTICES: Clean water should be available to rinse eyes and skin in case of chemical exposure. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Shower at the end of the workday.

ADDITIONAL PROTECTIVE MEASURES: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

EXPOSURE GUIDELINES: Refer to Section 3.

ENGINEERING CONTROLS: Use local exhaust at all process locations where dust may be emitted. Ventilate all transport vehicles prior to unloading.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Multi-colored granules

ODOR: Earth, slightly pungent

pH: 7 - 8

FLASH POINT: Not applicable

BULK DENSITY: 55 - 62 lb/cu. ft

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat and fire.

INCOMPATIBLE MATERIALS: Strong acids, caustic compounds, humid-wet conditions

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride. If heated to decomposition, may give off ammonia and formaldehyde, as well as oxides of sulfur, magnesium, iron, potassium and phosphorus. Urea can yield cyanuric acid or biuret upon heating.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD₅₀ (Rat): > 53.4 mg/kg (based on Bifenthrin technical); Fertilizer: > 10,000 mg/kg

Acute Dermal LD₅₀ (Rat): > 2,000 mg/kg

Acute Inhalation LC₅₀ (Rat): No data available

Eye Irritation (Rabbit): Mildly irritating

Skin Irritation (Rabbit): Mildly irritating

Dermal Sensitization: Not a skin sensitizer in guinea pigs

PRIMARY ROUTES OF EXPOSURE: Skin and eye contact, and inhalation.

POTENTIAL HEALTH EFFECTS: Effects from overexposure may result from either swallowing,

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inhaling or coming into contact with the skin or eyes. Symptoms of overexposure include bleeding from

the nose, tremors and convulsions. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the formulation. In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to bifenthrin. In lifetime feeding studies conducted with rodents, a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with bifenthrin. EPA has classified bifenthrin as Class C, possible human carcinogen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply when weather conditions favor drift from treated areas. Drift and run off from treated areas may be hazardous to aquatic organisms in neighboring areas. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

ECOTOXICOLOGICAL INFORMATION:

Aquatic Organisms Effects:

Rain trout LC₅₀: 0.00015 mg/L

Bluegill LC₅₀: 0.00035 mg/L

Daphnia magna EC₅₀: 0.0016 µg/L

Effects on Birds:

Mallard Duck LD50 (21-day): 2150 mg/kg

Bobwhite quail LD50 (21-day): 1,800 mg/kg

ENVIRONMENTAL FATE: No data available for the formulation. Bifenthrin has moderate stability in the soil under aerobic conditions (half-life range from 65 – 125 days depending on soil type) and is stable at a wide range of pH values. Bifenthrin has a high Log Pow (>6.0), a high affinity for organic matter, and is not mobile in soil. Therefore, there is little potential for movement into ground water. There is the potential for bifenthrin to bioconcentrate (BCF = 11,750).

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Open dumping or burning of this material or its packaging is prohibited. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not Regulated.

U.S. Surface Freight Class: Fertilizing compound mixed with insecticide

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INTERNATIONAL TRANSPORTATION:

IMO (vessel): Not Regulated.

IATA (air): Not Regulated.

15. REGULATORY INFORMATION

FIFRA INFORMATION:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Section 313: Bifenthrin (0.096%) CAS #:82657-04-3

CA PROPOSITION 65: Not applicable

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	1	1	0 MINIMAL
FLAMMABILITY:	1	0	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

MSDS DATE: Issued 2/5/2015 Supersedes: 5/7/2013

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