



MATERIAL SAFETY DATA SHEET #2308

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SUPERSEDES: 1/6/06

I. PRODUCT IDENTIFICATION

PRODUCT NAME:

LESCO CrossCheck Insecticide 0.10% Plus Fertilizer; LESCO CrossCheck Insecticide 0.030% Plus Fertilizer; LESCO CrossCheck 0.042% Insecticide Plus Fertilizer; LESCO CrossCheck 0.065% Insecticide Plus Fertilizer; LESCO CrossCheck GC 0.065% Insecticide Plus Fertilizer (RUP); LESCO CrossCheck 0.069% Insecticide Plus Fertilizer

Chemical Family: NA

Chemical Name/Synonyms: NA

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Formulated with one or more of the following ingredients. Check specific product label.			
Bifenthrin Technical	0.03 – 0.042 – 0.065 – 0.069 – 0.1	82657-04-3	NE
Formulated with one or more of the following ingredients. Check specific product label.			
Urea	0 – 95	57-13-6	10 mg/M ³ (dust) 5 mg/M ³ (resp)
Potassium Sulfate	0 – 95	7778-80-5	10 mg/M ³
Calcium Carbonate	0 – 95	1317-65-3	15 mg/M ³ (dust)
Methylene Urea	0 – 60	9011-05-6	5 mg/M ³ (dust)
Monoammonium Phosphate	0 – 60	7722-76-1	15 mg/M ³ (dust) 5 mg/M ³ TLV
Diammonium Phosphate	0 – 50	7783-28-0	15 mg/M ³ (dust) 5 mg/M ³ (resp)
Sodium bentonite	0 – 50	1302-78-9	15 mg/M ³ (dust)
Potassium Chloride	0 – 20	7447-40-7	10 mg/M ³ (dust)
Ammonium Sulfate	0 – 20	7783-20-2	15 mg/M ³ (dust)
Iron (Ferrous) Sulfate	0 – 20	7720-78-7	15 mg/M ³ (dust)
Manganese Oxide	0 – 20	1317-35-7	15 mg/M ³ (dust)
Magnesium Oxide	0 – 20	1309-48-4	15 mg/M ³ (dust)
Potassium Nitrate	0 – 20	7757-79-1	Not Established
Iron (Ferric) Oxide	0 – 10	1309-37-1	15 mg/M ³ (dust)
Iron (Ferrous) Oxide	0 – 10	8047-67-4	Not Applicable
Magnesium Sulfate	0 – 10	7478-88-9	15 mg/M ³ (dust)
Sulfate of Potash-Magnesia	0 – 10	14977-37-8	Not Established
Magnesium Carbonate	0 – 10	39409-82-0	15 mg/M ³ (dust)
Sulfur	0 – 5	7704-34-9	5 ppm (SO ₂)
Manganese Compounds	0 – 5	7439-96-5	.5 mg/M ³ (dust)
Sodium Chloride	0 – 5	7647-14-5	10 mg/M ³ (dust)

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS: Caution. Harmful if swallowed, inhaled or absorbed through skin. 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.

EYE: Causes moderate eye irritation.

SKIN: Harmful if absorbed through skin. Avoid contact with skin.

INHALATION: Harmful if inhaled. Do not breathe vapors/dust.

INGESTION: Harmful if swallowed.

MEDICAL CONDITIONS AGGRAVATED: None known

POTENTIAL ENVIRONMENTAL HAZARDS:

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Run-off may be hazardous to aquatic organisms in water adjacent to treated areas.

IV. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTES TO MEDICAL DOCTOR: This product is expected to have low oral, dermal, and inhalation toxicity. It is expected to be mildly irritating to the skin and eyes. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA

Lower Explosion Limits: NA

NFPA/HMIS Rating: Health: 1

EXTINGUISHING MEDIA:

☒ Foam

☒ Dry Chemical

Auto Ignition Temperature: NA

Upper Explosion Limits: NA

Fire: 1 **Reactivity:** 0

☐ Alcohol Foam

☐ Water

☒ CO₂

☐ Other

EXPLOSION HAZARDS: Slightly combustible May support combustion at elevated temperatures. Finely dispersed particles can form explosive mixtures in air. Irritating or toxic substances may be emitted upon thermal decomposition.

FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated. Isolate fire area. Evacuate downwind. Cool closed containers exposed to fire with water spray. Contain contaminated water/fire fighting water. Dike area to prevent run-off and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated. Prevent use of contaminated buildings, area, and equipment until decontaminated.

HAZARDOUS COMBUSTION PRODUCTS: Heating above 270F urea decomposes to biuret, ammonia, and nitrogen oxides. When subjected to extremely high temperatures, potash may release small quantities of chlorine gas. Bifenthrin decomposition products include carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section VIII. Keep unprotected persons and animals out of the area. Vacuum, shovel or sweep all spilled material and place into a drum. Label contents for reuse or disposal. Dispose of drummed waste according to the method outlined in Section XIII. To clean and neutralize contaminated area, scrub area with a solution of detergent (commercial product with high pH detergent) and water. Let solution sit for 5 minutes. Use a stiff brush to scrub affected area. Repeat if necessary to remove visible staining. Additional decontamination can be made by applying bleach to affected area. Absorb wash-liquid as noted above, remove visibly contaminated soil and place into recovery/disposal container (plastic, open-top steel drum or equivalent). Place all clean-up material in a container, seal and dispose of in accordance with the method outlined in Section VIII. Do not allow material to enter streams, sewers, or other waterways.

VII. HANDLING AND STORAGE

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

OTHER PRECAUTIONS: Do not allow material to enter streams, sewers, or other waterways.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: For dust exposure, wear chemical protective goggles or face shield.

RESPIRATORY: For dust exposures, wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator, which is approved for pesticides (NIOSH/MSHA). Respirator use and selection must be based on airborne concentrations.

GLOVES: Chemical resistant gloves made of materials such as nitrile. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

PROTECTIVE CLOTHING: Long-sleeved shirt, long pants, shoes plus socks.

WORK HYGIENIC PRACTICES: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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. Remove PPE immediately after handling this product. Before removing gloves, clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing. Leather items such as shoes, belts and watchbands that become contaminated should be removed and destroyed.

COMMENTS: Have eye wash facilities available where eye contact could occur.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA
MELTING POINT: ND
VAPOR DENSITY (air = 1): NA
ODOR: Earthy, fertilizer-like
APPEARANCE: Multi-colored granules
pH: 6 - 10

SPECIFIC GRAVITY: ND
EVAPORATION RATE: NA
VAPOR PRESSURE: NA
SOLUBILITY IN WATER: ND
PERCENT VOLATILE: ND
BULK DENSITY (lbs./cu ft): 54 – 85

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and fire.
STABILITY: Stable under normal conditions
POLYMERIZATION: Will not occur
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, manganese, magnesium, iron, potassium and phosphorus. Urea can yield cyanuric acid or biuret upon heating.

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbit): Mild irritant
SKIN EFFECTS: (Rabbit): Slight irritation
DERMAL LD₅₀: (Rabbit): >2,000 mg/kg
ORAL LD₅₀: (Female Rat): >5,000 mg/kg
INHALATION LC₅₀: The acute inhalation hazard of this product is not expected to be a toxicological concern based on the large particle size of the granular product.
SENSITIZATION: (Guinea pig): Non-sensitizing
ACUTE EFFECTS FROM OVEREXPOSURE:
 This product is expected to have low oral, dermal and inhalation toxicity. It is expected to be mildly irritating to the skin and eyes. Ingestion of large amounts of the fertilizer may cause gastrointestinal disorder, nausea, vomiting and/or diarrhea. Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsion, tremors and bloody nasal discharge. Bifenthrin does not cause acute delayed neurotoxicity. Experience to date indicates that contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.
CHRONIC EFFECTS FROM OVEREXPOSURE: 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 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.
CARCINOGENICITY:
IARC: Not Listed
NTP: Not Listed
OSHA: Not Listed
OTHER: Not Listed

XII. ECOLOGICAL INFORMATION

Unless otherwise indicated, the data presented below are for the active ingredients.
ENVIRONMENTAL DATA: In soil, bifenthrin is stable over a wide pH range and degrades at a slow rate that is governed by soil characteristics. Bifenthrin will also persist in aquatic sediments. 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).
ECOTOXICOLOGICAL INFORMATION: Bifenthrin is highly toxic to fish and aquatic arthropods and LC₅₀ values range from 0.0038 to 17.8 ug/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on mollusks at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds (LD₅₀ values range from 1,800 mg/kg to >2,150 mg/kg).

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:
Product: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Container: Do not re-use empty containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state and local authorities. If burned, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:



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DOT Transportation:

Not Regulated

Proper Shipping Name:

Insecticides, Fungicides, Insect or Animal Repellent NOI

Hazard Class:

NA

U.S. Surface Freight Class:

18

Marine Pollutant #1:

NA

HM 181 Shipping Name:

NA

ID NO.:

NA

Reportable Quantity (RQ):

NA

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SEC 311/312:

Y Immediate (Acute Health)

N Delayed (Chronic Health)

N Fire

N Sudden Release of Pressure

N Reactivity

SEC 302 (Extremely Hazardous Substance): NA

SEC 304 (Emergency Release Notification): NA

SEC 313 (Toxic Chemicals): Bifenthrin Technical (CAS #82657-04-3; 1.0%)

CERCLA RQ: NA

CAA RQ: NA

EPA Registration No.:

10404-107 (0.03%); 10404-103 (0.042%); 10404-104 (0.065% GC); 10404-105 (0.065%); 70506-123-10404 (0.069%);

10404-106 (.10%)

NOTE: NA=Not Applicable; ND=Not Determined; NE=Not Established

Preparation and distribution of this Material Safety Data Sheet is done for LESCO, Inc., pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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