

15885 Sprague Road, Strongsville, OH 44136
EMERGENCY PHONE: LESCO: (800) 321-5325
CHEMTREC: (800) 424-9300

DATE ISSUED: 2/5/03
SUPERSEDES: New

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Battle GC

Chemical Family: Pyrethroid

Chemical Name/Synonyms: [1a(S*),3a(Z)]-cyano(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Lambda-Cyhalothrin Technical	9.7	91465-08-6	NE
Propylene Glycol	5	57-55-6	NE
Magnesium Aluminum Silicate	2.7	12174-11-7	5 mg/M ³ (resp) 15 mg/M ³ (total dust)
Petroleum Solvent:	1 – 3	NA	NA
Xylene		1330-20-7	100 ppm
Cumene		98-82-8	50 ppm (skin)
1,2,4-Trimethylbenzene		95-63-6	25 ppm (125 mg/M ³)
Crystalline Silica, Quartz	0.3	14808-60-7	10 mg/M ³ (resp dust) 0.1 mg/M ³ (resp silica)

III. HAZARDS IDENTIFICATION

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

POTENTIAL HEALTH EFFECTS: Harmful if inhaled or swallowed. Dust, mist or vapor irritating to eyes and respiratory tract. May cause skin irritation. May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

EYE: Causes eye irritation

SKIN: May cause skin irritation. May cause temporary itching, tingling, burning or numbness of exposed skin.

INHALATION: Harmful if inhaled

INGESTION: Harmful if swallowed.

MEDICAL CONDITIONS AGGRAVATED: Not Available

POTENTIAL ENVIRONMENTAL HAZARDS: This product is extremely toxic to fish. Do not contaminate water when disposing of equipment wash water. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Use of this product adjacent to water may affect aquatic organisms. Care should be used when making applications to avoid household pets, particularly fish and reptile pets.

IV. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Get medical attention if irritation persists.

SKIN: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Get medical attention if irritation persists.

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

INGESTION: Call a physician or poison control center immediately for treatment advice. Do not give any liquid to person. Do not induce vomiting unless told to do so by poison control center or physician. Do not give anything by mouth to an unconscious person.

NOTES TO MEDICAL DOCTOR: There is no specific antidote if this product is ingested. Treat symptomatically. Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): >212F (Setaflash) **Auto Ignition Temperature:** Not Available
Lower Explosion Limits: NA **Upper Explosion Limits:** NA
NFPA/HMIS Rating: Health: 2 Fire: 1 Reactivity: 0

EXTINGUISHING MEDIA: Foam Alcohol Foam Dry Chemical
 Water Spray Other CO₂

EXPLOSION HAZARDS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

HAZARDOUS COMBUSTION PRODUCTS: Can decompose at high temperatures forming toxic gases.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, control spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined. If a solid, sweep up material and place in a compatible disposal container. If a liquid, cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

OTHER PRECAUTIONS: Avoid contact with eyes, skin and clothing. Avoid breathing dust, mist or vapor.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Chemical splash goggles

RESPIRATORY: A NIOSH-certified combination air-purifying respiratory with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

GLOVES: Chemical resistant (nitrile or butyl) gloves

PROTECTIVE CLOTHING: Long-sleeved shirt and long pants; shoes plus socks

WORK HYGIENIC PRACTICES: Do not eat, drink, use tobacco or apply cosmetics in areas where there is a potential for exposure to the product. Wash thoroughly with soap and water after handling.

COMMENTS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212F
MELTING POINT: Not Available

SPECIFIC GRAVITY/DENSITY: 1.04 @ 68F (20C)
EVAPORATION RATE: ND
VAPOR PRESSURE: Lambda-Cyhalothrin Technical:
1.5 x 10⁽⁻⁹⁾ mmHg @ 68F

ODOR: Slight odor/typical aromatic petroleum**SOLUBILITY IN WATER:** Lambda-Cyhalothrin**APPEARANCE:** Off-white liquid

Technical: 0.004mg/L

pH: 7.3 (1% w/w dilution in deionized water)**PERCENT VOLATILE:** ND**BULK DENSITY (lbs./cu ft):** NA

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known**STABILITY:** Stable under normal use and storage conditions**POLYMERIZATION:** Will not occur**INCOMPATIBLE MATERIALS:** None known**HAZARDOUS DECOMPOSITION PRODUCTS:** Can decompose at high temperatures forming toxic gases

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbit): Mildly irritating**SKIN EFFECTS:** (Rabbit): Moderately irritating**DERMAL LC₅₀:** (Rat) Slightly toxic: >2,000 mg/kg body weight**ORAL LD₅₀:** (Rat) Practically non-toxic: >5,000 mg/kg body weight**INHALATION LC₅₀:** (Rat) Practically non-toxic: >4.62 mg/l air – 4 hours**SENSITIZATION:** A weak skin sensitizer in animal tests**ACUTE EFFECTS FROM OVEREXPOSURE:****Lambda-Cyhalothrin Technical:**

Exposed skin contact with Lambda-Cyhalothrin Technical may result in temporary itching, tingling, burning or numbness. The effect may result from splash, aerosol, or hot vapor contact, or transfer to the face from contaminated gloves and hands. Symptoms usually disappear with 24 hours. Face and genital areas are especially susceptible to this effect.

Magnesium Aluminum Silicate:

Often repeated exposure to Magnesium Aluminum Silicate may be harmful by inhalation.

Petroleum Solvent:

High vapor/aerosol concentrations (>1000 ppm) of Petroleum Solvent are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous effects.

Propylene Glycol:

Prolonged skin contact with Propylene Glycol may cause mild to moderate irritation and possible allergic reactions. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Reported to cause anesthesia, dizziness, confusion, headache and nausea.

CHRONIC EFFECTS FROM OVEREXPOSURE:

Chronic inhalation exposure to **Crystalline Silica** is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.

Chronic dietary exposure to **Propylene Glycol** caused kidney and liver injury in experimental animals.

CARCINOGENICITY:**IARC:**

Crystalline Silica, Quartz: Group 2A

Xylene: Group 3

NTP: Not Listed**OSHA:** Not Listed**OTHER:** CA Prop 65: Crystalline Silica, Quartz

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA:

No data available for the formulation. The information presented is for the active ingredient. Lambda-Cyhalothrin Technical

Soil/Environment: Rapidly degraded in soil; DT50 for microbial degradation 23-82 d. for field soil 6-40 d. Strongly adsorbed to soil and sediment organic matter. Koc 330000. Negligible potential for leaching of Lambda-Cyhalothrin and its degradation products through soil. Rapid dissipation from water in aquatic systems. DT50 for dissipation from surface waters in lab water-sediment systems 5-11 h; in a microcosm DT50 <3 h. Rapid and extensive degradation of parent compound in aquatic systems; DT50 for degradation in lab water-sediment systems 7-15 d; in a microcosm DT50 <3 h, DT90 <3 d.

Do not contaminate water when disposing of equipment wash water. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Use of this product adjacent to water may affect aquatic organisms. Care should be used when making applications to avoid household pets, particularly fish and reptile pets.

ECOTOXICOLOGICAL INFORMATION:

Lambda-Cyhalothrin Technical: Toxic to fish; very toxic to aquatic organisms.

Rainbow Trout 96-hour LC50 0.44 ug/l

Daphnia magna 48 hours EC50 0.36 ug/l

Green Algae EC50 >1 mg/l

Pseudomonas putida ICC50 >1 mg/l

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

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

Container: Triple rinse (or equivalent). Completely empty container into application equipment, then offer for recycling or reconditioning, or puncture and dispose of empty container in a sanitary landfill, by incineration, or by other procedures approved by state and local authorities.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Not Regulated

Proper Shipping Name:

NA

Hazard Class:

NA

U.S. Surface Freight Class:

Insecticides, NOIBN, o/t poison

Marine Pollution #1:

NA

HM 181 Shipping Name:

Not Regulated

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)

Y Delayed (Chronic Health)

N Fire

N Sudden Release of Pressure

N Reactivity

SEC 302 (Extremely Hazardous Substance): >49,000 lbs (based on xylene, CAS #1330-20-7) [RQ 100 lbs] in the formulation

SEC 304 (Emergency Release Notification): NA



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SEC 313 (Toxic Chemicals):

1,2,4-Trimethylbenzene CAS #95-63-6

Cumene CAS #98-82-8

Xylene CAS #1330-20-7

CERCLA RQ: >49,000 lbs (based on xylene, CAS #1330-20-7) [RQ 100 lbs] in the formulation

CAA RQ: NA

EPA Registration No.: 100-1088-10404

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