

1301 East 9th Street, Suite 1300, Cleveland, OH 44114-1849
EMERGENCY PHONE: LESCO: (800) 321-5325
CHEMTREC: (800) 424-9300

DATE ISSUED: 12/14/06
SUPERSEDES: NEW

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Twosome™ Fungicide

Chemical Family: Thiophanate-methyl; Iprodione

Chemical Name/Synonyms: Thiophanate-methyl C₁₂H₁₄N₄O₄S₂; Iprodione C₁₃H₁₃Cl₂N₃O₃

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Thiophanate-methyl	19.65	23564-05-8	None
Iprodione	19.65	36734-19-7	
Other ingredients	60.70	NA	NA

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion
CAUTION: Causes moderate eye irritation. Harmful if absorbed through the skin, swallowed, or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing vapor and spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

POTENTIAL HEALTH EFFECTS: Symptoms of overexposure include nose bleeding, lacrimation, atonia of abdominal muscles, lethargy, decreased respiratory rate, mydriasis. Possible nausea, vomiting, and diarrhea.

EYE: May cause eye irritation. May temporarily injure eye tissue if not removed promptly.

SKIN: Contact is not expected to result in irritation

INHALATION: Harmful if inhaled. Acute or chronic exposure can cause asthmatic reaction or other pulmonary problems

INGESTION: Harmful if swallowed.

MEDICAL CONDITIONS AGGRAVATED: Skin abrasions and sores

POTENTIAL ENVIRONMENTAL HAZARDS: This chemical can contaminate surface waters through aerial and ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips and areas overlaying tile draining systems that drain to surface water.

This product is toxic to 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. Draft and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

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 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 – 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 treatment advice.

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

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA

Lower Explosion Limits: NA

NFPA/HMIS Rating: Health: 2

EXTINGUISHING MEDIA:

Foam
 Dry Chemical

Auto Ignition Temperature: NA

Upper Explosion Limits: NA

Fire: 0

Reactivity: 0

Alcohol Foam
 Water Spray

CO₂
 Use means suitable for extinguishing surrounding fire

EXPLOSION HAZARDS: NA

FIRE FIGHTING PROCEDURES: Approach from upwind to avoid hazardous decomposition products. Foam fire extinguishing system is preferred to prevent environmental damage from excessive water runoff. If water is used, avoid heavy hose streams. If possible, dike and collect water used to fight fire to prevent/minimize runoff.

HAZARDOUS COMBUSTION PRODUCTS: Heat and fire may result in thermal decomposition and the release of hydrogen chloride and oxides of nitrogen, sulfur and carbon.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, cover and incorporate. Add absorbent and sweep up spills. Avoid contact with skin or getting in eyes. Wash after using. Do not contaminate water by cleaning of equipment or disposal of wastes.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not contaminate water, food or feed by storage or disposal. Store in original container in a cool, dry area away from other pesticides, fertilizers, food or feed. Do not store at temperatures above 120F or at temperatures below 32F.

OTHER PRECAUTIONS: 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. Remove PPE immediately after handling this product. Wash the outside of gloves before removing.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None required for routine outdoor use. A local exhaust is recommended.

PERSONAL PROTECTION EQUIPMENT:

Mixers, loaders, others exposed to the concentrate and cleaners/repairers of equipment must wear:

- ◆ Long sleeve shirt and long pants, chemical-resistant gloves, chemical-resistant apron and chemical-resistant footwear plus socks

Applicators using handheld equipment must wear:

- ◆ Coveralls or long sleeve shirt and long pants, chemical-resistant gloves, chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposures and dust-mist filtering respirator (NIOSH-approved respirator with any R, P or HE filter)

Applicators using mechanical and ground equipment must wear:

- ◆ Long sleeve shirt and long pants and shoes plus socks

Applicators using truck-mounted equipment with a hand-gun at the end of the hose (i.e. for commercial turfgrass or ornamental applications) and all other handlers not specified above must wear:

- ◆ Long sleeve shirt and long pants and shoes plus socks, chemical-resistant gloves

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. Remove PPE immediately after handling this product. Wash the outside of gloves before removing.

COMMENTS: Follow the 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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA	SPECIFIC GRAVITY: ND
MELTING POINT: NA	EVAPORATION RATE: NA
VAPOR DENSITY (air = 1): NA	VAPOR PRESSURE: NA
ODOR: Odorless	SOLUBILITY IN WATER: Soluble
APPEARANCE: emulsion liquid	PERCENT VOLATILE: NA
pH: 7.46	DENSITY: 1.152 g/mL

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Extreme heat
STABILITY: Stable
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: Strong oxidizers, acids and bases
HAZARDOUS DECOMPOSITION PRODUCTS: Heat and fire may result in thermal decomposition and the release of hydrogen chloride and oxides of nitrogen, sulfur and carbon.

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbit) Mildly irritating
SKIN EFFECTS: (Rabbit) Slightly irritating
DERMAL LD₅₀: (Rat) > 5000 mg/kg
ORAL LD₅₀: (Rat, female) 1750 mg/kg
INHALATION LC₅₀: (Rat) 2.03 mg/L
SENSITIZATION: (Guinea pig) Not a contact sensitizer
ACUTE EFFECTS FROM OVEREXPOSURE: Causes moderate eye irritation. Harmful if absorbed through the skin, swallowed, or inhaled.
CHRONIC EFFECTS FROM OVEREXPOSURE: Symptoms of overexposure include nose bleeding, lacrimation, atonia of abdominal muscles, lethargy, decreased respiratory rate, mydriasis. Possible nausea, vomiting, and diarrhea.
CARCINOGENICITY:

IARC: Not Listed	OSHA: Not Listed
NTP: Not Listed	OTHER: CA Prop 65 – This product contains a chemical(s) known to the State of CA to cause cancer, birth defects or other reproductive harm (Thiophanate-methyl; Iprodione)

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This chemical can contaminate surface waters through aerial and ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips and areas overlaying tile draining systems that drain to surface water.
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ECOTOXICOLOGICAL INFORMATION: No Data

XIII. DISPOSAL CONSIDERATIONS

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

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 according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or if allowed by state and local authorities, by burning. If burned, say out of smoke. Do not reuse empty container.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Not Regulated

Proper Shipping Name:

Insecticides, Fungicides, Inset or Animal Repellent NOIBN

Hazard Class:

NA

U.S. Surface Freight Class:

18

Marine Pollutant #1:

Not Listed

HM 181 Shipping Name:

NA

ID NO.:

NA

Reportable Quantity (RQ):

None

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): Threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SEC 304 (Emergency Release Notification): NA

SEC 313 (Toxic Chemicals): Thiophanate-methyl (23564-05-8)

CERCLA RQ: Thiophanate-methyl (19.65%): 1 lb

CAA RQ: NA

EPA Registration No.: 79676-17-10404

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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