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I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO T-Storm Flowable Turf & Ornamental Fungicide
Chemical Family: Thiophanate Fungicide
Chemical Name/Synonyms: (dimethyl [1, 2-phenylene) – bis (iminocarbonothioyl)] bis [carbamate])

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Thiophanate-methyl	46.2	23564-05-8	Not Listed
Inerts	50 – 54	Not Applicable	Not Applicable

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eye, Skin, Inhalation, Ingestion
POTENTIAL HEALTH EFFECTS: May be harmful if swallowed, inhaled or absorbed through skin. Causes slight eye irritation. Avoid breathing dusts or spray mist. Avoid contact with eyes, skin or clothing. Keep out of reach of children.
EYE: Mildly irritating to eyes.
SKIN: Prolonged or repeated skin contact may cause irritation.
INHALATION: Spray mists or dust concentrations may be harmful if inhaled.
INGESTION: May be harmful if swallowed.
MEDICAL CONDITIONS AGGRAVATED: None known
POTENTIAL ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. 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 apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

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 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.
NOTES TO MEDICAL DOCTOR: Treat symptomatically

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA	Auto Ignition Temperature: NA	
Lower Explosion Limits: NA	Upper Explosion Limits: NA	
NFPA/HMIS Rating: Health: 2	Fire: 0	Reactivity: 0
EXTINGUISHING MEDIA:	<input type="checkbox"/> Foam	<input type="checkbox"/> Alcohol Foam <input checked="" type="checkbox"/> Dry Chemical
	<input checked="" type="checkbox"/> Water Spray	<input checked="" type="checkbox"/> Sand <input checked="" type="checkbox"/> CO ₂

EXPLOSION HAZARDS: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.
FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus with full facepiece; full fire fighting turn-out gear (Bunker gear). Evacuate area and fight fire upwind from a safe distance to avoid hazardous decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run off.
HAZARDOUS COMBUSTION PRODUCTS: Not known

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, clean up spills immediately. Isolate spill area. Keep unnecessary and unprotected personnel from entering.

Small Spill: Absorb with sand or inert material then sweep up and place in a container for disposal.

Large Spill: Recover as much free liquid as possible for reuse according to label instructions. Absorb remainder with sand or inert material then sweep up and place in a container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Wear appropriate personal protection equipment.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not contaminate water, food, or feed by storage or disposal. Use only in a well-ventilated area. Store in the original container in a dry area. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed in Section 13.

OTHER PRECAUTIONS: Keep out of reach of children.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local exhaust ventilation may be necessary to control any air contaminants. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Safety glasses with side shields

RESPIRATORY: During handling indoors (such as in greenhouses and enclosed plant growing areas) wear a NIOSH/MSHA approved respirator.

GLOVES: Waterproof gloves

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

WORK HYGIENIC PRACTICES: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

COMMENTS: 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. As soon as possible, wash thoroughly and change into clean clothing.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: No Data

MELTING POINT: NA

VAPOR DENSITY (air = 1): No Data

ODOR: Faint sulfur odor

APPEARANCE: Off white, viscous liquid

pH: 5.5 – 6.5

SPECIFIC GRAVITY: No Data

EVAPORATION RATE: No Data

VAPOR PRESSURE: No Data

SOLUBILITY IN WATER: Soluble

PERCENT VOLATILE: No Data

DENSITY: 1.12 g/ml (9.35 lb/gal)

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid exposure to high temperatures.

STABILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Oxidizing materials, some copper compounds, lime sulfur, highly alkaline materials

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, sulfur and carbon

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbit) Slight

SKIN EFFECTS: (Rabbit) Slight

DERMAL LC₅₀: (Rat) > 5,000 mg/kg

ORAL LD₅₀: (Rat) > 5,000 mg/kg

INHALATION LC₅₀: (Rat) > 10.0 mg/L

SENSITIZATION: (Guinea Pig) Non-sensitizer

ACUTE EFFECTS FROM OVEREXPOSURE: Mild eye irritant; prolonged or repeated skin contact may cause irritation. May be harmful if swallowed.

CHRONIC EFFECTS FROM OVEREXPOSURE: No evidence of Mutagenic data during *in vivo* or *in vitro* studies. Not known to exhibit reproductive or teratogenic (birth defect) effects.

CARCINOGENICITY:

IARC: Not Listed

OSHA: Not Listed

NTP: Not Listed

OTHER: Listed California Prop 65 - Thiophanate Methyl

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This pesticide is toxic to fish. 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 apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

ECOTOXICOLOGICAL INFORMATION:

Fish Toxicity: (Technical) 96 hour LC₅₀, Rainbow trout – 7.8 ug/L

Avian Toxicity: (Technical) Oral LD₅₀, Bobwhite quail - >5,000 mg/kg

Bee Toxicity: Non-toxic

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 our 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 by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation: Not Regulated

ID NO.: NA

Proper Shipping Name: Agricultural Fungicide,
Liquid, N.O.I.B.N.

Marine Pollution #1: NA

Hazard Class: NA

HM 181 Shipping Name: Not Regulated

U.S. Surface Freight Class: NA

Reportable Quantity (RQ): NA

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Y Immediate (Acute Health)

SEC 302: NA

N Delayed (Chronic Health)

SEC 304: NA

N Fire

SEC 313: Thiophanate Methyl (#23564-05-8)

N Sudden Release of Pressure

CERCLA RQ: NA

N Reactivity

CAA RQ: NA

EPA Registration No.: 66330-293-10404; 51036-329-10404

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

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