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I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO T-Storm 50 WSB

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	50	23564-05-8	NE
Inerts	50	NA	NA

Substances not 'Hazardous' per OSHA Hazard Communication Standard (29 CFR 1910.1200) may be listed. Where proprietary ingredient shows, the identify may be made available as provided in this standard

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 moderate eye irritation. Avoid contact with skin, vapor or spray mist. Remove contaminated clothing and wash clothing before reuse.

EYE: Causes moderate eye irritation.

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, where surface water is present, or to intertidal areas below the mean high water mark.

Application equipment should be thoroughly cleaned after use. Do not contaminate water when disposing of equipment washwater. Do not apply, allow to drift, or drain, or flush equipment onto non-target areas.

IV. FIRST AID MEASURES

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.

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 further 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.

NOTES TO MEDICAL DOCTOR: Treat symptomatically

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA

Lower Explosion Limits: NA

NFPA/HMIS Rating: Health: 2

EXTINGUISHING MEDIA: Foam

Auto Ignition Temperature: NA

Upper Explosion Limits: NA

Fire: 0 **Reactivity:** 0

Alcohol Foam CO₂

Dry Chemical Water Spray Other - Sand

UNUSUAL FIRE AND EXPLOSION HAZARDS: Can burn in fire, releasing irritating and toxic gases
FIRE FIGHTING PROCEDURES: 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. Equipment: Self-contained breathing apparatus with full facepiece; full fire fighting turn-out gear (Bunker gear).
HAZARDOUS COMBUSTION PRODUCTS: ND

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, clean up spills immediately, observing precautions in Section VIII. Isolate spill area. Keep unnecessary and unprotected persons from entering.
 Small Spill: Vacuum or sweep up material and place in a container for reuse or disposal.
 Large Spill: Vacuum or sweep up material and place in a container for reuse or 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. Store in a cool, dry area in original unopened container. Store in a secured area unavailable to unauthorized persons. Use only a well-ventilated area. Minimize dust generation and accumulation. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with Pesticide Disposal instructions in Section XIII.
OTHER PRECAUTIONS: Keep out of reach of children.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust 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 indoor handling (such as greenhouses and enclosed plant growing areas), wear a NIOSH/MSHA approved respirator.
GLOVES: Chemical-resistant gloves
PROTECTIVE CLOTHING: Long-sleeved shirt and long pants; shoes with 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.
COMMENTS: 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 cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA	SPECIFIC GRAVITY: NA
MELTING POINT: NA	EVAPORATION RATE: NA
VAPOR DENSITY (air = 1): NA	VAPOR PRESSURE: NE
ODOR: Faint sulfur odor	SOLUBILITY IN WATER: Soluble
APPEARANCE: Fine, light tan powder	PERCENT VOLATILE: NA
pH: 7.5 – 8.5	BULK DENSITY (lbs./cu ft): 15 – 20

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures and high moisture conditions for prolonged periods
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 LD₅₀: (Rat) >5,000 mg/kg

ORAL LD₅₀: (Rat) >5,000 mg/kg

INHALATION LC₅₀: (Rat) >10.0 mg/kg

SENSITIZATION: (guinea pig) Non-sensitizer

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

CHRONIC EFFECTS FROM OVEREXPOSURE: NE

Mutagenic Data: No evidence during *in vivo* or *in vitro* studies

Additional Data: Not known to exhibit reproductive or teratogenic (birth defect) effects

CARCINOGENICITY:

IARC: Not Listed

OSHA: Not Listed

NTP: Not Listed

OTHER: CA Prop 65: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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 run-off is like 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. Store in a cool, dry area in original unopened container. Store in a secured area unavailable to unauthorized persons.

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 Disposal Following Non-commercial Use: Completely empty bag into application equipment.

If Empty: Do not reuse this container. Place in trash or offer for recycling if available.

If Partly Filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Container Disposal Following Commercial Use: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If bag is disposed of by burning, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Not Regulated

Proper Shipping Name:

Agricultural Fungicide, Solid, N.O.I.B.N.

Hazard Class:

NA

Marine Pollutant #1:

NA

HM 181 Shipping Name:

Not Regulated

ID NO.:

RCRA : U409

U.S. Surface Freight Class:

18 Insecticides, Fungicides, Insect or Animal Repellent NOI

Reportable Quantity (RQ):

Thiophanate-methyl (CAS 23564-05-8) 10 lbs

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): Thiophanate-methyl (CAS 23564-05-8)****CERCLA RQ:** Thiophanate-methyl (CAS 23564-05-8) 10 lbs**CAA RQ:** NA**EPA Registration No.:** 66330-294-10404; 51036-330-10404

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

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