

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

DATE ISSUED: 6/10/05
SUPERSEDES: NEW

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Manicure® 6FL Fungicide
Chemical Family: NA
Chemical Name/Synonyms: (Active Ingredient): Tetrachloroisophthalonitrile, Chlorothalonil

II. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | %(by/wt.) | CAS # | PEL/TLV |
|------------------------------|-----------|-------------|---------|
| Tetrachloroisophthalonitrile | 54.0 | 1897-45-6 | NE |
| Inert Ingredients | | Proprietary | NE |

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion
POTENTIAL HEALTH EFFECTS: Warning: May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation.
EYE: Causes moderate eye irritation.
SKIN: Mild irritation to skin. Not readily absorbed through intact skin.
INHALATION: May cause irritation to the respiratory tract.
INGESTION: May cause irritation to the gastrointestinal tract following ingestion of large amounts.
MEDICAL CONDITIONS AGGRAVATED: None known
POTENTIAL ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates and wildlife. 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 run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT contaminate water when disposing of equipment washwater or rinsate. Chlorothalonil can contaminate surface water through spray drift. Do not apply when weather conditions favor drift from treated areas. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks 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 over-laying tile drainage systems that drain to surface water. Chlorothalonil degradates are known to leach through soil into ground water under certain conditions as a result of label use. Use of this product in areas where solids are permeable, particularly where the water table is shallow, may result in ground water contamination.

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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
NOTES TO MEDICAL DOCTOR: Probable mucosal damage may contraindicate the use of gastric lavage. Persons having a temporary allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): Nonflammable **Auto Ignition Temperature:** NA

Lower Explosion Limits: NA

NFPA/HMIS Rating: Health: 1

EXTINGUISHING MEDIA: Foam

Dry Chemical

Upper Explosion Limits: NA

Fire: 0 Reactivity: 0

Alcohol Foam CO₂

Water Other

EXPLOSION HAZARDS: May decompose under fire conditions emitting toxic and irritant gases (i.e. hydrogen chloride) to the respiratory tract.

FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus should be provided for firefighters. Prevent run-off from entering drains, sewers, or bodies of water. If water is used to fight fire, dike and collect runoff.

HAZARDOUS COMBUSTION PRODUCTS: May decompose under fire conditions emitting toxic and irritant gases (i.e. hydrogen chloride) to the respiratory tract.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: This material is toxic to fish. Keep out of lakes, streams or ponds. Contain spills, Remove as much as possible by shoveling and sweeping. Place contaminated materials in closed, labeled containers and store in a safe place to await proper disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Persons performing this work should wear adequate personal protective equipment and clothing.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Store this product only in its original container in a dry, cool, secured storage area.

OTHER PRECAUTIONS: Keep out of reach of children and domestic animals. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling. Avoid contact with eyes, skin or clothing. Do not breathe spray mist.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Chemical goggles or face shield

RESPIRATORY: NIOSH approved dust respirators or pesticide respirators

GLOVES: Protective chemical-resistant gloves to minimize skin contact. Special precautions should be taken so product cannot get inside gloves.

PROTECTIVE CLOTHING: Long sleeved shirt and long pants, shoes plus socks. 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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

WORK HYGIENIC PRACTICES: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 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. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

COMMENTS: Safety shower and eyewash stations should be provided in all areas in which this product is stored and/or handled. Persons exposed routinely to this active material should shower prior to leaving work each day.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: * 100C

MELTING POINT: NA

FREEZING POINT: (5C)

VAPOR DENSITY (air = 1): ND

ODOR: Slight odor

APPEARANCE: Liquid, White

pH: 6 to 9

(*denotes data developed from technical active ingredient)

SPECIFIC GRAVITY: (H₂O=1): 1.34

EVAPORATION RATE: (Butyl Acetate = 1): ND

VAPOR PRESSURE: *5.72 X 10⁻⁷ torr @ 25c

SOLUBILITY IN WATER: *0.6 – 0.9 ppm. Formulation:

Dispersible in water

PERCENT VOLATILE: 45

DENSITY @ 20C: 11.15#/gal

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None Known

STABILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Not Known

HAZARDOUS DECOMPOSITION PRODUCTS: May decompose under fire conditions emitting gases and vapors (i.e. hydrogen chloride) which may be toxic and irritating to the respiratory tract.

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbit): Irritant; reversible corneal, iridial and conjunctival effects in unwashed eyes; minimal irritation in washed eyes; Category III

SKIN EFFECTS: (Rabbit): Non-irritating; Category IV

DERMAL LD₅₀: (Rabbit): > 2,020 mg/kg; Category III

ORAL LD₅₀: (Rat): 3,260 mg/kg; Category III

INHALATION LC₅₀: (Rat 4-hr): 0.11 mg/liter of air; Category II

SENSITIZATION: (Guinea pig): Non-sensitizer

ACUTE EFFECTS FROM OVEREXPOSURE: May cause eye, skin, and respiratory tract irritation. May cause contact dermatitis.

CHRONIC EFFECTS FROM OVEREXPOSURE: Repeated excessive dermal exposure may cause marked skin irritation and may increase the possibility of allergic reactions. Studies on rats and mice have suggested that technical chlorothalonil, when fed at high levels in the diet, may have oncogenic potential to these laboratory animals. However, neither chlorothalonil nor its metabolites interact with DNA and thus are not mutagenic. Tumor formation has been related to a non-genotoxic mechanism of action from which threshold levels have been established on rats and mice. Comprehensive dietary and worker exposure studies have shown exposure levels for humans to be well below these threshold levels – in addition, surveillance of chlorothalonil plant workers for many years has not demonstrated any increase in oncogenic potential to humans.

CARCINOGENICITY:

IARC: Chlorothalonil is *possibly carcinogenic to humans (Group 2B)*.

NTP: Not listed

OSHA: Not listed

OTHER: NA

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product is toxic to aquatic invertebrates and wildlife. 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 run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT contaminate water when disposing of equipment washwater or rinsate.

ECOTOXICOLOGICAL INFORMATION: No Data

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Product: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray 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 at the nearest EPA Regional Office for guidance.

Container: Do not reuse empty container. Triple rinse (or equivalent) and 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, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Non Bulk (under 119 gal) – Not Regulated

Bulk (over 119 gal) – Regulated

Proper Shipping Name:

Non Bulk – Insecticides, Fungicides, Insect or Animal Repellent NOI

Bulk – Environmentally hazardous substance, liquid, N.O.S.

(chlorothalonil), 9, UN3082, PGIII, ERG #171

Marine Pollution #1:

Non Bulk – NA

Bulk – Marine Pollutant

HM 181 Shipping Name:

NA



**MATERIAL SAFETY
DATA SHEET #3039**

Hazard Class:

Non Bulk – NA

Bulk – 9

U.S. Surface Freight Class:

Non Bulk – 18

Bulk – NMFC Item #102100

ID NO.:

Non-Bulk – NA

Bulk – UN3082

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): NA

SEC 304 (Emergency Release Notification): NA

SEC 313 (Toxic Chemicals): Chlorothalonil (1897-45-6) 54%

CERCLA RQ: NA

CAA RQ: NA

EPA Registration No.: 60063-7-10404

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

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For further information, contact: LESCO, Inc. • 1301 East 9th Street, Suite 1300 • Cleveland, OH 44114-1849 or (800) 321-5325.