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I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Horticultural Oil
Chemical Family: Petroleum Hydrocarbon
Chemical Name/Synonyms: Superior Oil, Dormant Oil

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Severely Solvent Refined Light Paraffinic Petroleum Oil	80 – 100	64741-89-5	5mg/M ³ , Oil Mist Limit
Severely Solvent Refined Heavy Paraffinic Petroleum Oil	0 – 20	64741-88-4	5mg/M ³ , Oil Mist Limit
Alkyl Aryl Polyoxyethoxy Ethanol Nonionic Surfactant	0 – 1		NE
Alkyl Phenol Coupler	0 – 1		NE

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: Eyes, Skin, Inhalation, Ingestion
POTENTIAL HEALTH EFFECTS: Danger! Harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage.
EYE: Mildly irritating
SKIN: Practically non-toxic if absorbed through the skin. Substance does not generally irritate and is only mildly irritating to the skin.
INHALATION: High vapor concentrations are irritating to the eyes, nose, throat, and lungs.
INGESTION: Practically non-toxic if ingested. Product may be harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage.
MEDICAL CONDITIONS AGGRAVATED: The following diseases or disorders may be aggravated by exposure to this product: skin, respiratory system, lung (asthma-like conditions).
POTENTIAL ENVIRONMENTAL HAZARDS: This product is toxic to fish and aquatic organisms. 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 contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on the label.

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. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to a person. Do not give anything by mouth to an unconscious person.
NOTES TO MEDICAL DOCTOR: Treat symptomatically

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): 340F Min (COC)
Lower Explosion Limits: ND

Auto Ignition Temperature: 650F estimated
Upper Explosion Limits: ND

NFPA/HMIS Rating: Health: 0

Fire: 1

Reactivity: 0

EXTINGUISHING MEDIA: Foam
 Dry Chemical

Alcohol Foam
 Water Spray

CO₂
 Other

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible at high temperatures. Vapors may accumulate in confined areas.

FIRE FIGHTING PROCEDURES: Wear structural fire-fighting gear. Use a water spray to cool fire-exposed containers and structures, disperse vapors and protect personnel.

HAZARDOUS COMBUSTION PRODUCTS: Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section VIII. Advise the Environmental protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Store in a cool, dry, locked area out of reach of children. Keep container tightly closed in storage to prevent entry of water. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. NFPA Class IIIB storage. Flash point is greater than 200F.

OTHER PRECAUTIONS: Avoid contact with eyes, skin or clothing. Avoid breathing spray mist or vapors. Wash thoroughly after handling.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits. Use with adequate ventilation.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Splash proof chemical goggles

RESPIRATORY: Use only NIOSH certified respiratory equipment. Respiratory protection is not usually needed unless product is heated or misted. Half-mask air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable for exposures to fifty (50) times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

GLOVES: Chemical resistant gloves such as Polyvinyl chloride (PVC), Neoprene, Nitrile, Polyvinyl alcohol, Viton.

PROTECTIVE CLOTHING: Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required. The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA), Polyvinyl chloride (PVC), Neoprene, Nitrile, Viton, Polyurethane.

WORK HYGIENIC PRACTICES: Wash face and hands before eating, drinking, smoking or using the toilet. Remove contaminated clothing and wash before reuse.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: No Data
MELTING POINT: No Data

SPECIFIC GRAVITY: 0.85
EVAPORATION RATE: No Data

VAPOR DENSITY (air = 1): No Data
ODOR: Little odor
APPEARANCE: Colorless liquid
pH: No Data

VAPOR PRESSURE: <0.0001 mm/Hg @ 20C
SOLUBILITY IN WATER: Miscible
PERCENT VOLATILE: Nil
BULK DENSITY (lbs./gal): No Data

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid heat, sparks and open flame
STABILITY: Stable
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Mildly irritating
SKIN EFFECTS: Mildly irritating
DERMAL LC₅₀: No Data
ORAL LD₅₀: >15 g/kg
INHALATION LC₅₀: No Data
SENSITIZATION: No Data
ACUTE EFFECTS FROM OVEREXPOSURE: Harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage. High vapor concentrations are irritating to the eyes, nose, throat and lungs.
CHRONIC EFFECTS FROM OVEREXPOSURE: None known
CARCINOGENICITY:
IARC: Not Listed
NTP: Not Listed
OSHA: Not Listed
OTHER: Not Listed

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: 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 contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on the label.
ECOTOXICOLOGICAL INFORMATION: This product is toxic to fish and aquatic organisms.

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Do not contaminate water, food, or feed by storage or disposal. Follow Federal, state and local regulations. Material is not a RCRA hazardous waste, if not contaminated. Do not flush material to drain or storm sewer.
Product: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Container: Nonrefillable container. Do not reuse this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:
Not Regulated
Proper Shipping Name:
Petroleum Oil NOIBN
Hazard Class:
NA

Marine Pollutant #1:
Not Listed
HM 181 Shipping Name:
NA
ID NO.:
NA



U.S. Surface Freight Class:
18 Insecticides, Fungicides, Insect or Animal Repellent NOI

Reportable Quantity (RQ):
NA

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): NA

CERCLA RQ: NA

CAA RQ: NA

EPA Registration No.: 10404-66

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

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