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DATE ISSUED:

SUPERSEDES:



MATERIAL SAFETY DATA SHEET #4306

1301 East 9th Street, Suite 1300, Cleveland, OH 44114-1849

EMERGENCY PHONE: LESCO: (800) 321-5325

CHEMTREC: (800) 424-9300

ī.

PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO PRE-M® Plus Fertilizer (0.75% - 1.5% Pendimethalin; all fertilizer analyses)

Chemical Family: Dinitroaniline

Chemical Name/Synonyms: N-(1-ethylpropyl)-3,4-dimethly-2,6-dinitrobenzenamine

II. COMPOSITION/INFORMATION ON INGREDIENTS **CHEMICAL NAME** CAS# PEL/TLV %(by/wt.) Pendimethalin 0.75 - 1.50%40487-42-1 3 mg/M3 recommended Formulated with one or more of the following ingredients. Check specific product label. Urea 0 - 9857-13-6 10 mg/m3 (dust) 5 mg/ms (resp) Potassium Chloride 0 - 957447-40-7 10 mg/m3 10 mg/m3 0 - 95Potassium Sulfate 7778-80-5 15 mg/m3 (dust) Monoammonium Phosphate 0 - 957722-76-1 5 mg/m3 TLV 0 - 9515 mg/m3 (dust) Diammonium Phosphate 7783-28-0 5 mg/m3 (resp) Ammonium Sulfate 0 - 957783-20-2 15 mg/m3 (dust) 0 - 95Calcium Carbonate 471-34-1 15 mg/m3 (resp) 0 - 20Sulfur 7704-34-9 ND Iron (Ferric) Oxide 0 - 1015 mg/m3 (dust) 1309-37-1 Iron (Ferrous) Sulfate 0 - 107720-78-7 15 mg/m3 (dust) Manganese Oxide 0 - 101317-35-7 5 mg/m3 (dust) 15 mg/m3 (dust) Magnesium Sulfate 0 - 107487-88-9 Ethylene dichloride 0 - 1107-06-2 10 ppm ACGIH 40 ppm STEL

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS: Harmful if swallowed. Causes eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

EYE: Moderate eye irritation **SKIN:** Moderate skin irritation

INHALATION: Overexposure to dusts may cause mucous membrane and upper respiratory irritation **INGESTION:** Ingestion of large amounts may cause gastrointestinal disorder, nausea, vomiting, and/or distribute.

MEDICAL CONDITIONS AGGRAVATED: None known

POTENTIAL ENVIRONMENTAL HAZARDS: This product is toxic to fish. DO NOT apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. DO NOT contaminate water by cleaning of equipment or disposal of equipment washwaters 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. 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.



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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: Pendimethalin is a strongly orange-red colored compound. – virtually an aniline dye. Cases have been described of orange-yellow coloration of urine following heavy exposure of workers to the dust of pendimethalin. Despite its structure as both a nitro-compound and aromatic amine, exposure to pendimethalin is NOT associated with methemoglobinemia. Treat symptomatically.

| ٧. | FIRE FIGHTING MEASURES | |
|------|--|---|
| | Flash Point (Method Used): NA Lower Explosion Limits: NA NFPA/HMIS Rating: Health: 2 EXTINGUISHING MEDIA: | Auto Ignition Temperature: NA Upper Explosion Limits: NA Fire: 1 Reactivity: 0 Alcohol Foam x CO ₂ x Water Fog Other an explosive dust/air mixture. Contamination with |
| | strong acids may create an explosion hazard. FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water. If water enters a drainage system, advise authorities downstream. Fertilizer will become slippery when wet. Guard against falls. HAZARDOUS COMBUSTION PRODUCTS: At high temperatures, nitrogen containing fertilizer can form cyanuric cid, hydrogen cyanide and ammonia. Ammonium carbamate may also be formed. | |
| VI. | ACCIDENTAL RELEASE MEASURES | |
| | RELEASE NOTES: If material is spilled, evacuate are and ventilate. Wear protective equipment. If dry, sweep or shovel into a container for reuse per label instructions, or disposal. If liquid, contain spill and absorb with inert material and place in container for disposal. Prevent run-off from entering drains, sewers or water sources. Avoid contact with skin, eyes, and clothing. | |
| VII. | I. HANDLING AND STORAGE | |
| | GENERAL PROCEDURES: Store in original container in a cool, dry secured storage area. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Avoid contact with eyes, skin or clothing. Keep away from heat, sparks, or other ignition sources. OTHER PRECAUTIONS: Avoid inhalation of dust. Wash thoroughly with soap and water after handling. Keep out of reach of children. | |

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Work in well ventilated areas. Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Chemical goggles when respirator does not provide eye protection.

RESPIRATORY: NIOSH/MSHA approved respirator should be worn if large quantities of dust are generated or prolonged exposure possible.

GLOVES: Chemical resistant gloves

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

WORK HYGENIC PRACTICES: Users should 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 contaminated clothing and wash separately before reuse. Follow manufacturers' instructions for changing/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

COMMENTS: Have eye washing facility readily available where eye contact can occur.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA MELTING POINT: 133C (Urea) VAPOR DENSITY (air = 1): NA SPECIFIC GRAVITY: NA EVAPORATION RATE: NA VAPOR PRESSURE: NA





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ODOR: Nutty

APPEARANCE: Yellow granules

pH: NA

SOLUBILITY IN WATER: Disperses

PERCENT VOLATILE: NA

BULK DENSITY (lbs./cu ft): 45 - 65

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None

STABILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Oxidizing agents, strong alkali

HAZARDOUS DECOMPOSITION PRODUCTS: Possible combustion products include oxides of carbon, sulfur and nitrogen. Urea also decomposes to biuret and cyanuric acid. Urea reacts with sodium or calcium

hypochlorite to form explosive nitrogen trichloride.

XI. TOXICOLOGICAL INFORMATION

DATA FOR PENDIMETHALIN TECHNICAL:

EYE EFFECTS: (Rabbit): Slightly to moderately irritating

SKIN EFFECTS: (Rabbit): Not irritating **DERMAL LD50:** (Rabbit): > 5000 mg/kg

ORAL LD50: (Rat, male): 4665 mg/kg; (Rat, female): 5000 mg/kg

INHALATION LC50: (Rat, 1-hr calculated): > 26.92 mg/L; (Rat, 4-hr actual): > 6.73 mg/L

SENSITIZATION: (Guinea pig): Not a sensitizer. However, data generated by another company has

indicated that pendimethalin is a skin sensitizer.

ACUTE EFFECTS FROM OVEREXPOSURE: Slight to moderately irritating to eyes and skin.) rat study.

CHRONIC EFFECTS FROM OVEREXPOSURE:

Oncogenicity: A marked depression in body weight gain and statistically significant increase in benigh thyroid proliferative lesions were observed at the highest dose tested (5000 ppm) in the lifetime (24 months. The US EPA has classified pendimethalin an oncogenicity rating of "low c" (possible human carcinogen)

CARCINOGENICITY:

NTP: Pendimethalin – reasonably anticipated to be a human carcinogen

OSHA: Not Listed

OTHER: NA

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters or rinsate.

ECOTOXICOLOGICAL INFORMATION:

For the active ingredient – pendimethalin:

Rainbow trout, 96 hr LC50 - 0.89 mg/L

Bluegill sunfish, 96 hr LC50 - 0.2 mg/L

Sheepshead minnow, 96 hr LC50 - 0.707 mg/L

Daphnia magna, 48 hr EC50 - 0.977 mg/L

Mallard duck, Oral LD50 - 1421 mg/kg

Bobwhite quail, LC50 - 4187 ppm

Honeybee, 48 hr Contact LD50 > - 100 ug/bee

Honeybee, 48 hr Oral LD50 > - 100 ug/bee

Pendimethalin technical is very toxic to fish, aquatic invertebrates, and algae, toxic to birds, and practically non-toxic to Honeybees.

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Pesticide: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures. Or call (1-800-CLEANUP) for disposal instructions. Never place unused product down any indoor or outdoor drain.

Container: Do not reuse bag. Dispose of emptied bag(s) in a sanitary landfill approved for pesticide disposal, or by incineration.



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XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Not Regulated

Proper Shipping Name:

NΙΔ

Hazard Class:

NA

U.S. Surface Freight Class:

NA

Marine Pollutant #1:

ND

HM 181 Shipping Name:

NA ID NO.: NA

Reportable Quantity (RQ lbs):

Ethylene dichloride - 100

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SEC 311/312:

N 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): Pendimethalin (40487-42-1); Ethylene dichloride (107-06-2)

CERCLA RQ: Ethylene dichloride (107-06-1) 100 lbs; RCRA U077

CAA RQ: NA

EPA Registration No.: 10404-82; 10404-98; 10404-100; 10404-101; 10404-102; 538-214-10404

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

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