

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

DATE ISSUED: 8/22/05
SUPERSEDES: NEW

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO PRE-M AquaCap™ Herbicide
Chemical Family: Aniline derivative
Chemical Name/Synonyms: Pendimethalin

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Pendimethalin	38.7	40487-42-1	3 mg/M ³
Proprietary ingredients	61.3	NA	NE

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion
POTENTIAL HEALTH EFFECTS: Causes eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing.
EYE: Causes moderate eye irritation.
SKIN: Harmful if absorbed through skin. May cause slight irritation to the skin.
INHALATION: Relatively nontoxic after short-term inhalation.
INGESTION: Relatively nontoxic after single ingestion.
MEDICAL CONDITIONS AGGRAVATED: No data available
POTENTIAL ENVIRONMENTAL HAZARDS: 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 when disposing 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 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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
NOTES TO MEDICAL DOCTOR:
Symptoms: orange-red colored urine caused by dye (not associated with methemoglobinemia)
Antidote: no known specific antidote
Treatment: treat symptomatically

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): > 230F
Lower Explosion Limits: NA
NFPA/HMIS Rating: Health: 1

EXTINGUISHING MEDIA: Foam
 Dry Chemical

Auto Ignition Temperature: ND
Upper Explosion Limits: NA
Fire: 1 **Reactivity:** 1

Alcohol Foam CO₂
 Water Spray Other

EXPLOSION HAZARDS: In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus and chemical-protective clothing. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

HAZARDOUS COMBUSTION PRODUCTS: If product is heated above decomposition temperature, toxic vapors will be released. If product is involved in a fire, carbon monoxide, carbon dioxide, nitrogen oxides can be released.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES:

Personal Precautions – Take appropriate measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental Precautions – Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Cleanup – Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES:

Handling – Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid all sources of ignition, heat, sparks, open flame. No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used up as soon as possible. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. Avoid contact with skin, eyes and clothing. Avoid inhalation of mists/vapors. Wear suitable personal protective clothing and equipment. Keep away from oxidizing substances.

Storage – DO NOT STORE BELOW 15F. Extended storage at temperatures below 15F can result in the formation of crystals on the bottom of container. If crystallization does occur, store the container on its side at room temperature (70F) and rock occasionally until crystals dissolve. Keep only in original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.

OTHER PRECAUTIONS: Keep away from incompatible substances. Keep away from foods and animal feeds. Keep away from textiles and similar materials. Keep out of reach of children.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Safety glasses with side-shield. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

RESPIRATORY: Supplied air respirators should be worn if large quantities of mist/dust are generated or prolonged exposure possible.

GLOVES: Chemical resistant protective gloves to prevent skin contact

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

WORK HYGENIC 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. 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.

COMMENTS: Following manufacturer's instruction for cleaning and maintaining PPE. If 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: ND	SPECIFIC GRAVITY: 1.165 – 1.185 g/cm ³
MELTING POINT: ND	EVAPORATION RATE: NDA
VAPOR DENSITY (air = 1): ND	VAPOR PRESSURE: ND
ODOR: Faint odor, nutty	SOLUBILITY IN WATER: Soluble
APPEARANCE: Dark orange aqueous solution	PERCENT VOLATILE: NA
pH: 7 – 8	BULK DENSITY (lbs./gal): 9.76

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid sources of ignition, heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Void contamination. Void electro-static discharge. Avoid prolonged storage.

STABILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Oxidizing agents; corrosive effect on brass, mild steel

HAZARDOUS DECOMPOSITION PRODUCTS:

No hazardous decomposition products if stored and handled as indicated. Prolonged thermal loading can result in products of degradation being given off. Possible thermal decomposition products are carbon monoxide, carbon dioxide, nitrogen oxide. Stable at ambient temperature. If product is heated above decomposition temperature, toxic vapors and hazardous fumes may be released.

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Rabbit: Mildly irritating

SKIN EFFECTS: Rabbit: Mildly irritating (Primary skin irritation text)

DERMAL LD₅₀: Rat: >5000 mg/kg

ORAL LD₅₀: Rat: >5000 mg/kg

INHALATION LC₅₀: (4 hr) Rat: > 5.23 mg/L

SENSITIZATION: Buehler test/Guinea pig: Non-sensitizing

ACUTE EFFECTS FROM OVEREXPOSURE: May cause slight but temporary irritation to the eyes. May cause slight irritation to the skin. Relatively nontoxic after single ingestion, short-term inhalation, short-term skin contact.

CHRONIC EFFECTS FROM OVEREXPOSURE: Pendimethalin:

Genetic Toxicity – No mutagenic effect was found in various tests with microorganisms and mammals.

Reproductive Toxicity – The results of animal studies gave no indication of a fertility impairing effect.

Developmental Toxicity/Teratogenicity – No indications of a developmental toxic/teratogenic effect were seen in animal studies.

Experiences in Humans – Pendimethalin is a strongly orange-red 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.

CARCINOGENICITY: Pendimethalin: In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term studies in rats the substance induced thyroid tumors. A marked decrease in body weight gain and an increase in benign thyroid proliferative lesions were observed in the lifetime study at the highest dose tested.

IARC: Not listed

OSHA: Not listed

NTP: Not listed

OTHER: Not listed

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 when disposing of equipment washwaters or rinsate.

ECOTOXICOLOGICAL INFORMATION: Data on pendimethalin:

Fish

Rainbow trout, 96 hr, LC50: 0.89 mg/l

Aquatic Invertebrates

Daphnia magna, 48 hr, EC50: 0.977 mg/l

Aquatic Plants

Green algae, 72 hr, EC50: 0.0081 mg/l

Algae, EC50: 0.055 ppm

Other Terrestrial Non-Mammals

Mallard duck, LD50: 1,421 mg/kg

Honeybee, LD50: 49.8

Acutely harmful to terrestrial organisms

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Disposal: 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 by use 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. RCRA: DO28.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation: Less than 2452 gal – Not Regulated

Proper Shipping Name: Less than 2452 gal – None

Greater than 2452 gal – Environmentally hazardous substances, liquid, N.O.S.

Hazard Class: Less than 2452 gal – None

Greater than 2452 gal – Class 9

Marine Pollution #1: NA

HM 181 Shipping Name: NA

U.S. Surface Freight Class: Equal to or greater than 2452 gal = RQ, Environmentally hazardous substances, liquid, N.O.S. (ethylene dichloride), 9, UN 3082, PG III, ERG 171

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SEC 311/312(HAZARD CATEGORIES):

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): Pendimethalin (CAS #40487-42-1)

CERCLA RQ: 100 lbs (ethylene dichloride, CAS #107-06-2)

CAA RQ: NA

EPA Registration No.: 241-416-10404



**MATERIAL SAFETY
DATA SHEET #4052**

Page 5 of 5

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

Preparation and distribution of this Material Safety Data Sheet is done for LESCO, Inc., pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The information contained herein is based on available data. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof; and you should make your investigation to determine safety for the use you contemplate. LESCO makes no warranty of merchantability of fitness for a particular use, nor is there any other express or implied warranty except as may be specifically provided otherwise on product.

LESCO, Inc. assumes no responsibility or liability for any incidental or consequential damages whether related to personal injury or property damage, to vendees, users or third parties, caused by the material and LESCO's responsibility is limited to replacement of, or repayment of, the purchase price for the material(s) with respect to which any damages are claimed. All vendees or users assume all risk associated with the use of the material(s).

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