



MATERIAL SAFETY DATA SHEET # 4029

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I. PRODUCT IDENTIFICATION

Product: **LESCO PRE-M® 3.3 EC TURF HERBICIDE and LESCO PRE-M® 3.3 EC Herbicide**
 Chemical Family: Dinitroaniline Chemical Name/Synonyms: Pendimethalin, CL92.553

II. PRODUCT INFORMATION: INGREDIENTS

Chemical Name	TLV/TWA % (by wt.)	CAS#	
Pendimethalin: N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzeneamine	6 mg/m ³	37.4	40487-42-1
Aromatic 200 Solvent	100 ppm or 563 mg/m ³	52.0	64742-94-5
Inert Ingredients	ND	10.6	NA

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 208°C Specific Gravity (water=1): 1.07 ± 0.01 g/ml
 Melting Point: Liquid at room temperature Bulk Density (lbs./cu. ft.): NA
 Vapor Pressure (mm Hg): 5.6 torr @ 25°C Evaporation Rate: 0.014 (n-Butyl Acetate=1)
 Vapor Density (air = 1): ND Percent Volatile: 52%
 Solubility in Water: Emulsifies Appearance and Odor: Dark, amber liquid
 pH: 6.0-7.0 for a 2-4% aqueous dispersion mild aromatic hydrocarbon odor

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (method Used): 244°F (Seta Flash) 201°F (Pensky Martens) Auto Ignition Temperature: 375°C

NFPA/HMIS RATING:	HEALTH 1	FIRE 1	REACTIVITY 0
Extinguishing Media:	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> Alcohol Foam	<input checked="" type="checkbox"/> Dry Chemical
	<input checked="" type="checkbox"/> Water Spray	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> CO ₂

Special Fire-Fighting Procedures: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full fire protective clothing. Keep unnecessary people away. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Foam system is preferred because uncontrolled water can spread possible contamination. Prevent run-off from entering drains, sewers or bodies of water. Do not contaminate personnel or equipment or handle broken packages or containers without protective equipment as specified in Special Protection Information section. Decontaminate emergency personnel with soap and water before leaving the fire scene. Avoid breathing dusts, vapors and fumes from burning materials. Advise authorities downstream if water source becomes contaminated.

Unusual Fire and Explosion Hazards: This product is a Class III combustible liquid based on its flash points. Storage areas must conform with NFPA 30 and NFPA 70 or local standards, whichever is more stringent.

V. HEALTH HAZARDS

Primary Route(s) of Entry: Skin, eyes, inhalation, ingestion.

Signs & Symptoms of Exposure

Acute: The acute oral LD₅₀ in rats for the combined sexes was shown to be 3956 mg/kg body weight, indicating that the material is slight to moderately toxic by ingestion in single doses.

The acute dermal LD₅₀ in rabbits was shown to be greater than 2200 mg/kg body weight (highest dose tested), indicating that the product is only slightly toxic by dermal application in a single dose.

The material was determined to be mildly irritating to rabbit skin and eyes and shown to be a non-skin sensitizer in appropriate guinea pig studies.

Acute inhalation studies in rats demonstrated that the LC₅₀ was greater than 5.35 mg/L (actual) of air over a 4 hour exposure period.

Chronic: This material as formulated has not been tested for chronic toxicity, however, the chronic toxicity of Pendimethalin is as follows:

Mutagenicity: In an evaluation of data from a battery of six genotoxicity tests, pendimethalin was judged to be nongenotoxic. **Teratogenicity:**

No teratogenic or fetotoxic effects were observed in rats or rabbits. **Reproduction:** No reproductive effects were observed in a three-generation reproduction study conducted in rats. **Oncogenicity:** No oncogenic effects were observed at all dosage levels tested in the lifetime

(18 months) mouse study. The highest dose tested was 5000 ppm in the diet. A marked depression in body weight gain and statistically

significant increase in benign thyroid proliferative lesions were observed at the highest dose tested (5000 ppm) in the lifetime (24 months) rat

study.

Emergency First-Aid Procedures

Eyes: Flush eyes with copious quantities of water for 15 minutes. Get medical attention if irritation persists.

Skin: Wash skin with plenty of soap and water. Get medical attention if irritation persists.

Inhalation: Remove subject to fresh air.

Ingestion: Do not induce vomiting. Get medical attention immediately.

Notes to Physician: Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspiration of aromatic hydrocarbons into the lungs, vomiting should be induced only under professional supervision. Pendimethalin is a strongly orange-red colored compound - virtually an aniline dye. Cases have been described of orange-yellow coloration of the urine following heavy exposure of workers to the dust of this compound. Despite its structure as both a nitro-compound and aromatic amine, exposure to pendimethalin is not associated with methemoglobinemia.

Toxicity Information:

Oral LD₅₀: Acute(rat): 3956 mg/kg Slight to moderate toxicity

Dermal LD₅₀: Acute(rabbit) >2250 mg/kg Slightly toxic

Inhalation LC₅₀: >5.35 mg/L (Rat-4 hr period) **Eye Irritation:** Mild

Skin Irritation: Mild - not a sensitizer

Positive Teratogen or Mutagen Carcinogen(NTP): No

Potential Carcinogen (IARC or OSHA): No

VI. REACTIVITY

Stability: Stable Unstable

Conditions to Avoid: Do not store below 40° F. Extended storage at temperatures below 40° F may result in the formation of crystals on the bottom of the container. Do not store above 120° F.

Incompatibility: Avoid contamination with strong oxidizing agents and strong alkalis.

Hazardous Decomposition Products: Combustion may produce oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur Will occur

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

If material is spilled: Wearing appropriate protective clothing and equipment, dike spill area to prevent spill from spreading, absorb with an inert absorbent material, (e.g. granular clay or sawdust), and shovel/sweep into covered containers for proper disposal. Rinse spill area and tools several times with soapy water. Contain and absorb rinsate with inert absorbents and place into disposal containers. Depending on the quantity of released into the environment, notifications to regulatory authorities may be required. If spill is to a body of water, immediately notify applicable authorities downstream, so that contingencies can be taken if necessary.

Waste Disposal Method: Dispose according to Federal EPA procedures as outlined in the Resource Conservation Recovery act (RCRA) and follow state and local guidelines. Be certain containers are completely empty before disposal. To avoid disposal, all attempts should be made to utilize the product completely, in accordance with its intended and/or registered use. If this is not possible, handle with care and dispose in a safe manner.

Empty containers may retain some product residues. DO NOT REUSE. It is the ultimate responsibility of the waste generator to determine at the time of disposal whether the product (and/or "empty" container residue) meets any hazardous waste criteria. Follow all applicable Federal, State, Provincial and Local regulations regarding waste management methods.

VIII. SPECIAL PROTECTION INFORMATION

Protective Equipment Suggested for Outdoor Application:

Impervious Gloves Dust Mask Respirator(use NIOSH/MSHA approved)

Impervious Boots Clean Clothing Eye Goggles / Safety Glasses

Protective Equipment Suggested for Confined Areas:

Sufficient Ventilation Respirator(use NIOSH/MSHA approved) Dust Mask

Splash Goggles/Safety Glasses

Eyewash Station Emergency Shower Impervious Apron

IX. STORAGE AND HANDLING

Precautions: Store in a cool, dry place if possible. Separate from other pesticides, fertilizers, seed, feed, foodstuffs, and away from drains, sewers, and water sources.

Other Precautions: Do not store below 40° F. Not for use or storage in or around the home. Keep away from sources of ignition and protect from exposure to fire and heat. Segregate from oxidizers and incompatible materials listed in the Reactivity Section. This material is a Class III combustible liquid based on its flash points. Storage areas must conform to NFPA 30 and NFPA 70 or local standards, whichever is more stringent. Store in original containers. Keep containers sealed when not in use.

X. FEDERAL REGULATORY INFORMATION:

SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES

Y Immediate (Acute) Health SEC 302: NA

N Delayed (Chronic) Health SEC 304: NA

N Fire

SEC 313: NA

N Sudden Release of Pressure

CERCLA RQ: NA

N Reactivity

CAA RQ: NA

EPA Reg. No.: 241-341-10404 and 241-360-10404

HM 181 Shipping Name: Not Regulated.

NA = Not Applicable

ND = Not Determined

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

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