

B17533

Physecene Plant

Pg 3
InsideDavey Ground
Maint

MATERIAL SAFETY DATA SHEET #4027

20005 Lake Road, Rocky River, OH 44116
Emergency Phone: LESCO: (216) 333-9250
CHEMTREC: (800) 424-9300

DATE ISSUED: 12/13/93
SUPERSEDES: 07/06/92

I. PRODUCT IDENTIFICATION

Product: PRE-M 60 DG Herbicide
Chemical Name/Synonyms: Pendimethalin

Chemical Family: Dinitroaniline

II. PRODUCT INFORMATION: INGREDIENTS

| Chemical Name | TLV/TWA | %(by wt.) | CAS# |
|--------------------------------------|-----------------------|-----------|------------|
| Pendimethalin: N-(1-Ethylpropyl) | | | |
| -3,4-Dimethyl-2,6-Dinitrobenzenamine | 5.0 mg/m ³ | 60.0% | 40487-42-1 |
| Inert ingredients | ND | 40.0% | -- |

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

| | | | |
|--------------------------|-----------|------------------------------|---------------------------------|
| Boiling Point: | NA | Specific Gravity (water=1): | NA |
| Melting Point: | NA | Bulk Density (lbs./cu. ft.): | 29-35 |
| Vapor Pressure (mm Hg): | NA | Evaporation Rate: | NA |
| Vapor Density (air = 1): | NA | Percent Volatile: | Non-volatile |
| Solubility in Water: | Disperses | Appearance and Odor: | Yellow granules, nutty odor. |
| Ph: | 7.0-10.0 | | |

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point(method Used): (tech)>207°F/97°C CC
Lower Explosion Limits: NA
NFPA/HMIS RATING: HEALTH FIRE REACTIVITY
2 1 0

Auto Ignition Temperature: (tech): none up to 200°C
Upper Explosion Limits: NA

Extinguishing Media: ☒ Foam ☐ Alcohol Foam ☒ Dry Chemical
☒ Water Spray ☐ Other ☒ CO₂

Special Fire-Fighting Procedures: Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing. Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent pesticide run-off. Use spray or fog - solid stream may cause spreading.

Do not contaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section. Decontaminate emergency personnel with soap and water before leaving the fire area.

Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water - If water enters a drainage system, advise the authorities downstream.

Avoid heavy dose streams, airborne dusts may create an explosion hazard.

Unusual Fire and Explosion Hazards: This material has been tested in a 20-liter spherical bomb and has been found to be a Class ST-1 dust explosion hazard. If the material is further processed, the dust explosion hazard may change and it should be retested.

V. HEALTH HAZARDS

Primary Route(s) of Entry: Skin, eyes, Inhalation, Ingestion.
Signs & Symptoms of Exposure

Acute: The combined oral LD₅₀ in male and female rats was greater than 5000 mg/kg, indicating that the material is practically non-toxic by ingestion in single doses.
The combined dermal LD₅₀ in male and female rabbits was greater than 2000 mg/kg, indicating the product is no more than slightly toxic by single skin applications.
The material was moderately irritating to both eye and skin in animal studies (rabbit).
Based upon results of a sensitization study in guinea pigs, PRE-M 60 DG was considered a non-sensitizing agent.
Direct contact of this product with the skin or sclera of the eyes may cause orange-yellow staining which will, however, fade in time.

Chronic: Pendimethalin:

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 with rats.

Oncogenicity: No oncogenic effects were observed at all dosed 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 with copious amounts of water. Get medical attention if irritation persists.

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

Ingestion: Drink two glasses of water. Induce vomiting by touching the back of the throat with fingers.

Notes to Physician: 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(rate): >5000 mg/kg

Dermal LD₅₀: Acute(rabbit): >2000 mg/kg

Eye Irritation: Moderate

Skin Irritation: Moderate, non-sensitizing

Positive Teratogen or Mutagen Carcinogen(NTP): No

Potential Carcinogen (IARC or OSHA): No

VI. REACTIVITY

Stability: ☒ Stable ☐ Unstable

Conditions to Avoid: None

Incompatibility: Avoid contamination with oxidizing agents or strong alkalies.

Hazardous Decomposition Products: Possible combustion products include oxides of carbon, sulfur and nitrogen.

Hazardous Polymerization: ☒ Will not occur ☐ Will occur

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

If material is spilled: 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 from entering drains, sewers or water sources. Avoid contact with skin, eyes, clothing.

Waste Disposal Method: Dispose according to Federal EPA procedures as outlined in the Resource Conservation Recovery Act (RCRA) and follow state and local guidelines. Triple rinse and puncture containers as required.

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:

[X] Sufficient Ventilation [X] Respirator (use NIOSH/MSHA approved) [X] Dust Mask [X] Splash Goggles/
[X] Eyewash Station [X] Emergency Shower [] Impervious Apron Safety Glasses

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 in temperatures above 120°F. Keep away from fire, sparks or other ignition sources. Segregate from oxidizers and incompatible material listed under Reactivity Data Section. Due to dust explosion hazard, all equipment should have explosion venting per NFPA 68-1978. All electrical wiring and equipment should meet the provisions of NFPA-70. Store in original, unopened or sealed containers. Do not store in unmarked containers. Wash thoroughly with soap and water after handling.

X. FEDERAL REGULATORY INFORMATION:**SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES**

N Immediate (acute Health)

SEC 302: N/A

N Delayed (Chronic) Health

SEC 304: N/A

N Fire

SEC 313: N/A

N Sudden Release of Pressure

CERCLA RQ: N/A

N Reactivity

CAA RQ: N/A

EPA Reg. No.: 10404-52

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., 20005 Lake Road, Rocky River, Ohio 44116, 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, Inc. 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, Inc.'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., • 20005 Lake Road • Rocky River, Ohio 44116 or (216) 333-9250.