

Material Safety Data Sheet

Effective Date: 29-OCT-2004
Product: HELENA PENDIMETHALIN

I. IDENTIFICATION

Chemical Name: Pendimethalin
Chemical Family: Dinitroaniline
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: 40487-42-1 (pendimethalin)
EPA Number: 241-337-5905

II. PHYSICAL DATA

Boiling Point: 244 Degrees C.
Freezing Point: Not determined
Spec Gravity: 1.06 g/mL
Vapor Pressure: 5.6 mm/Hg
Vapor Density: Not determined
Solubility: Emulsifiable
Volatiles: Not determined
Evaporation: Not determined
Melting Point: Not applicable
Appearance: Dark amber liquid with aromatic odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Pendimethalin	40487-42-1	37.40	3 mg/m3	Skin & eye irritant
Petroleum Solvent, including Naphthalene	64742-94-5	51.90	15 ppm	Slight eye & moderate skin irritant
Inert ingredients, including Ethylene dichloride		10.70	10 ppm	Skin irritant

IV. FIRE AND EXPLOSION HAZARD

Flash Point: 208 Degrees F. (SETA)
Autoignition Temp: 375 Degrees C.
Flammable Limit: Not determined
Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical extinguishing agents.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing.
Fire and Expl Hazard: None known. Material decomposes at 244 Degrees C.

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V. HEALTH HAZARD

Carcinogen Information: Ethylene dichloride - IARC 2B

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Harmful if swallowed.
Skin Absorption: Harmful if absorbed through skin. Prolonged skin contact may irritate skin and cause dermatitis.
Inhalation: Inhalation of vapors or spray mist is irritating to the respiratory tract. May cause headache, dizziness, anesthesia, drowsiness, unconsciousness and other CNS effects, including death. Severe pulmonary injury may occur if aspirated.
Skin contact: Prolonged skin contact may irritate skin and cause dermatitis. May aggravate any pre-existing skin conditions.
Eye Contact: Contact causes moderate eye irritation.
Chronic Effects: Chronic exposure to naphthalene, such as is found in the petroleum solvent, may result in liver and/or kidney disorders.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call a poison control center or doctor immediately for treatment advice. Sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by doctor. Get immediate medical treatment.
Skin: Remove contaminated clothing. Wash skin with plenty of water for 15 to 20 minutes. Call a physician or poison control center for treatment advice.
Inhalation: Move to fresh air. If not breathing, call 911 and give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.
Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. If contact lenses present, remove after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
Notes to Physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia. Because of

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increased risk of chemical pneumonia or pulmonary edema caused by aspiration, vomiting should be induced only under professional supervision. Pendimethalin is a strongly orange-red compound - virtually an aniline dye. Cases have been described of urine coloration following heavy exposure. Despite its structure as both a nitro-compound and aromatic amine, exposure to pendimethalin is NOT associated with methemoglobinemia.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: Do not store below 40 Degrees F. or above 120 Degrees F.
Polymerization: Will Not Occur
Conditions to Avoid: Does not polymerize.
Incompatibility material: Oxidizing agents and strong alkali. Store in cool, dry, well-ventilated place away from ignition sources, heat or flame.
Hazardous Combustion: Including but not limited to oxides of carbon and nitrogen.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: For large spills: Avoid contact, isolate area and keep out animals and unprotected persons; call CHEMTREC (1-800-424-9300). For small spills: Dike and contain with an inert material (dirt or sand). Collect and place in chemical waste containers for proper disposal.
Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: Supplied air if large quantities of mist/dust generated.
Ventilation: Provide mechanical ventilation to reduce potential exposure.
Gloves: Chemical-resistant
Eyes: Chemical goggles
Other: Eyewash station, emergency shower, impervious

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

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apron and footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams or ponds. This mixture is toxic to fish and very toxic to aquatic plants.

Other precaution: RCRA Hazardous Waste Code: D028 (other codes may apply)

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT in containers less than 155 gallons.

Hazard Class: None

Identification No: None

Labels Required: None required

Placarding: None

Freight Class: Compound, Weed Killing, Liquid (Pendimethalin Herbicide), N.O.I. (NMFC Item 50320, Class 60)

Chemical Name	Equivalent R.Q.
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Naphthalene (CAS No. 91-20-3)	100 lbs.
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TRANSPORTATION NOTE:

If container > 155 gallons, ship as follows:

RQ, Environmentally hazardous substance, liquid, n.o.s. (Naphthalene), 9, UN3082, PG III "ERG # 171"

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:

(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1

Fire: 1

Reactivity: 1

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S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y
Sudden Release of pressure: N
Reactive: N

Delayed (Chronic) Health: Y
Fire: N

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
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