COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED
U21009KA2023PTC179006
Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.
Email: info@scimplify.com
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SAFETY DATA SHEET
Pendimethalin Technical

1. IDENTIFICATION OF COMPANY & PRODUCT

- **Product Name: Pendimethalin Technical**
- **Chemical Name: 3,4-dimethyl-2,6-dinitro-N-pentan-3-ylaniline**
- **Molecular Formula: $C_{13}H_{19}N_3O_4$**
- **Uses: Herbicide**
- **Supplier/Manufacturer: Cocreate Global Technologies Private Limited**

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percentage (w/w)
Pendimethalin	40487-42-1	96%
Blend of Ionic & Nonionic Emulsifiers	---	--
Aromatic Solvent (Solvent Naphtha)	---	--

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3. HEALTH HAZARDS IDENTIFICATION

- **Toxicity Classification: WHO (a.i) III; EPA (Formulation) III**
- **NOEL (No Observed Effect Level): 100 mg/kg (2-year feeding trials)**
- **Main Hazard: Highly toxic to aquatic organisms**

Biological Hazards

- **Eye Contact:** May cause irritation
- **Skin Contact:** Not a skin irritant
- **Ingestion:** May cause **nausea, vomiting, diarrhea**
- **Inhalation:** May cause **irritation**

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4. FIRST AID MEASURES

- **If Swallowed:**
  - **Do NOT induce vomiting** unless advised by medical personnel
  - Perform **gastric lavage** and provide oxygen if respiration is depressed
  - **Seek immediate medical attention**
- **If Inhaled:**
  - Remove the victim to **fresh air immediately**
  - If breathing stops, **apply artificial respiration**
  - **Seek immediate medical attention**
- **If in Eyes:**
  - Flush eyes **immediately with plenty of water for at least 15 minutes**
  - **Seek medical attention immediately**
- **If on Skin:**
  - Wash skin with **plenty of soap and water**
  - Remove contaminated clothing
  - **Seek medical attention if irritation persists**

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5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:**
  - **Foam, Carbon Dioxide (CO_2), Dry Chemical, Water Spray**
- **Fire Hazards:**
  - May release **carbon oxides and nitrogen oxides**
  - **Dike fire area** to prevent pesticide run-off
- **Protective Equipment for Firefighters:**

- **Wear self-contained breathing apparatus (SCBA)**
- **Avoid inhaling toxic fumes**

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6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:**
  - **Isolate the hazard area**
  - **Use protective gear (goggles, gloves, and a respirator)**
- **Environmental Precautions:**
  - **Prevent the material from entering drains, sewers, or water bodies**
- **Cleanup Methods:**
  - **Absorb spills with inert material (sand, earth, or clay)**
  - **Collect in labeled waste containers for disposal**

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7. HANDLING AND STORAGE

- **Handling Precautions:**
  - Avoid inhalation, ingestion, and skin contact
  - **Do not eat, drink, or smoke while handling**
  - **Wear protective clothing and gloves**
- **Storage Conditions:**
  - Store in a **cool, well-ventilated area**
  - **Keep away from food, feed, and children**
  - **Avoid exposure to heat, flames, and direct sunlight**

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Respiratory Protection: Full-face protective mask**
- **Eye Protection: Safety goggles or face shield**
- **Skin Protection: Chemical-resistant gloves and protective clothing**
- **Workplace Hygiene:**
    - **Provide emergency showers and eyewash stations**
    - **Wash hands after handling the product**

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9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Brown to dark yellow liquid
Odor	Mild aromatic solvent odor
Specific Gravity	0.980 ± 0.05 g/ml
Vapor Density	0.021 (Air = 1)
Vapor Pressure	20.7 mmHg
pH	Not available
Solubility in Water	Emulsifiable
Stability	Stable under normal storage conditions

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10. STABILITY AND REACTIVITY

- **Stable at temperatures below 35°C**
- **Avoid strong oxidizers, acids, and alkaline materials**
- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, hydrogen chloride

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11. TOXICOLOGICAL INFORMATION

- **Acute Oral LD50 (Rat): > 2000 mg/kg**
- **Acute Dermal LD50 (Rat): > 2000 mg/kg**
- **Acute Inhalation LC50: No data available**
- **Skin Irritation: Not a skin irritant**
- **Eye Irritation: Mild eye irritation**
- **Carcinogenicity/Teratogenicity/Mutagenicity: None reported**

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12. ECOLOGICAL INFORMATION

- **Highly toxic to fish and aquatic life**
- **Soil Half-life: 90 days**
- **Persistence in Water:**
    - **Stable to hydrolysis** but degraded by light
    - **Strong tendency to bind to sediment**

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13. DISPOSAL CONSIDERATIONS

- **Do not dispose into drains or water bodies**
- **Incineration is the preferred disposal method**
- **Triple rinse empty containers before disposal**

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14. TRANSPORT INFORMATION

- **UN Number: 3082**
- **Shipping Name: Environmentally Hazardous Substance, Liquid, n.o.s. (Pendimethalin 30%)**
- **Hazard Class: 9 (Miscellaneous Hazardous Material)**
- **Packing Group: III**

- **Marine Pollutant: Yes**

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15. REGULATORY INFORMATION

- **Hazard Symbols: Xn (Harmful), N (Dangerous for the Environment)**
- **Risk Phrases:**
    - **R22**: Harmful if swallowed
    - **R50/53**: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- **Safety Phrases:**
    - **S2**: Keep out of reach of children
    - **S61**: Avoid release to the environment

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16. OTHER INFORMATION

- **Disclaimer:** The information provided is based on current knowledge but does not guarantee specific properties.
