

Diphenyl Isodecyl Phosphite MSDS

1. Product Name and Identification

- **Product Name:** [Diphenyl Isodecyl Phosphite](#)
- **Chemical Formula:** C₂₅H₃₃O₃P
- **CAS Number:** 26544-23-0
- **Synonyms:** Phosphorous acid, diphenyl, isodecyl ester
- **Product Use:** Stabilizer, industrial additive
- **Manufacturer Information:**
 - Company Name: [Insert Manufacturer's Name Here]
 - Address: [Insert Address Here]
 - Emergency Contact Number: [Insert Contact Number Here]

2. Composition/Ingredients

- **Chemical Name:** Diphenyl Isodecyl Phosphite
- **Concentration:** ≥ 98% (by weight)
- **Hazardous Components:**
 - No significant impurities or additives that increase hazard classification.

3. Hazards Identification

- **GHS Classification:**
 - Hazard category: Skin sensitization (Category 2), Eye irritation (Category 2)
- **Label Elements:**
 - Signal Word: Warning
 - Hazard Statements:
 - H315 - Causes skin irritation.
 - H319 - Causes serious eye irritation.
 - Precautionary Statements:
 - Avoid contact with skin and eyes.
 - Wear appropriate protective clothing and safety equipment.
- **Other Hazards:**
 - May cause mild respiratory irritation if inhaled.

4. First Aid Measures

- **General Information:**
 - Always consult a doctor in case of concern. Show the MSDS to the medical professional.
- **Eye Contact:**

- Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
- **Skin Contact:**
 - Wash thoroughly with soap and water. If irritation occurs, get medical advice.
- **Inhalation:**
 - Move to fresh air. If respiratory discomfort occurs, seek medical attention.
- **Ingestion:**
 - Do not induce vomiting unless directed by medical personnel. Rinse mouth and drink plenty of water. Seek medical assistance immediately.

5. Handling and Storage

- **Handling Instructions:**
 - Avoid inhaling dust or vapor.
 - Wear appropriate protective equipment.
 - Ensure proper ventilation in the workspace.
- **Storage Requirements:**
 - Store in a cool, dry location away from heat, fire, and incompatible substances such as strong acids and oxidizers.
 - Keep the container tightly closed.

6. Exposure Controls/Personal Protection

- **Engineering Controls:**
 - Use adequate ventilation to keep airborne concentrations low.
- **Personal Protective Equipment (PPE):**
 - Eye Protection:
 - Safety goggles or glasses with side shields.
 - Skin Protection:
 - Chemical-resistant gloves (e.g., nitrile or neoprene).
 - Respiratory Protection:
 - Wear a NIOSH-approved respirator if exposure to vapors is likely.

7. Physical and Chemical Properties

- **Appearance:** Clear to slightly yellow liquid
- **Odor:** Mild, characteristic odor
- **Boiling Point:** ~200-250°C
- **Melting Point:** Not applicable
- **Flash Point:** >150°C (Closed cup)
- **Solubility:** Insoluble in water, soluble in organic solvents
- **Density:** ~1.04 g/cm³
- **Viscosity:** Low to moderate viscosity
- **pH:** Neutral

8. Stability and Reactivity

- **Chemical Stability:**
 - Stable under normal conditions.
- **Conditions to Avoid:**
 - Excessive heat, flames, and sparks.
- **Materials to Avoid:**
 - Strong oxidizing and reducing agents.
- **Decomposition Products:**
 - Thermal decomposition may produce hazardous gases, such as phosphorous oxides and phenol compounds.

9. Toxicological Information

- **Acute Toxicity:**
 - Oral (LD50): >2000 mg/kg (rat, estimated)
 - Dermal (LD50): >2000 mg/kg (rabbit, estimated)
- **Irritation:**
 - May cause irritation to eyes and skin on contact.
- **Chronic Effects:**
 - Prolonged or repeated exposure may sensitize skin.
- **Carcinogenicity:**
 - Not classified as a carcinogen by OSHA, IARC, or NTP.

10. Disposal Considerations

- **Waste Disposal Instructions:**
 - Dispose of product and packaging according to local, state, and federal regulations.
 - Avoid releasing into drains or the environment.
- **Empty Containers:**
 - Empty containers may retain residue; handle as hazardous waste unless cleaned thoroughly.