# **Propyl Gallate MSDS**

### **Product Name and Identification**

Product Name: <u>Propyl Gallate</u>Chemical Formula: C10H12O5

• **CAS Number**: 121-79-9

• **Relevant Uses**: Antioxidant used in food, cosmetics, and industrial applications to prevent oxidation and rancidity.

• Manufacturer/Supplier: [Insert Manufacturer Information]

• **Emergency Contact Number**: [Insert Emergency Contact Information]

# **Composition/Ingredients**

• Chemical Name: Propyl Gallate

• Concentration: 98-100%

• **Synonyms**: Propyl 3,4,5-trihydroxybenzoate

CAS Number: 121-79-9EC Number: 204-498-2

### **Hazards Identification**

- Classification:
  - o Skin irritation (Category 2)
  - Eye irritation (Category 2A)
  - o Specific target organ toxicity single exposure (Category 3, respiratory irritation)
- Hazard Statements:
  - o H315: Causes skin irritation.
  - o H319: Causes serious eye irritation.
  - o H335: May cause respiratory irritation.
- Precautionary Statements:
  - o P261: Avoid breathing dust or fumes.
  - o P280: Wear protective gloves, clothing, and eye protection.
  - o P303 + P361 + P353: IF ON SKIN, remove contaminated clothing and rinse skin with water
  - o P305 + P351 + P338: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

### **First Aid Measures**

- General Advice:
  - Seek medical attention if adverse symptoms persist after exposure.
- If Inhaled:

o Move the person to fresh air. Keep them comfortable for breathing. Call a doctor if symptoms like coughing or irritation persist.

#### • If on Skin:

Wash with soap and water for at least 15 minutes. Remove contaminated clothing.
If irritation persists, consult a physician.

#### • If in Eyes:

o Immediately flush eyes with water for at least 15 minutes. Remove contact lenses if applicable. Seek medical advice if irritation persists.

#### • If Swallowed:

o Rinse mouth with water. Do not induce vomiting. Seek medical attention immediately.

# **Handling and Storage**

#### Handling:

- Avoid breathing dust or vapors. Use in a well-ventilated area or under local exhaust ventilation. Prevent contact with skin or eyes.
- Minimize dust generation and accumulation.

#### • Storage:

• Store in a cool, dry area, away from heat and ignition sources. Keep container tightly sealed. Avoid exposure to moisture and strong oxidizers.

### **Exposure Controls/Personal Protection**

#### • Exposure Limits:

 No exposure limits established. Use standard industrial controls to minimize inhalation or contact.

#### • Engineering Controls:

Use local exhaust ventilation to maintain exposure below permissible levels.

#### • Personal Protective Equipment (PPE):

- o **Eve Protection**:
  - Wear chemical safety goggles or a face shield.

#### Skin Protection:

• Use chemical-resistant gloves and suitable protective clothing.

#### o Respiratory Protection:

 Use an approved respirator if dust levels are high or ventilation inadequate.

#### o General Hygiene:

• Wash hands and skin thoroughly after handling. Avoid eating, drinking, or smoking in work areas.

### **Physical and Chemical Properties**

- Appearance: White to slightly yellow crystalline powder
- Odor: Odorless or faint characteristic odor

- **pH** (10% solution): ~4-5
- Melting Point: 150-153°C
- Solubility:
  - $\circ$  Slightly soluble in water (~0.1 g/L at 25°C).
  - o Soluble in ethanol, acetone, and oils.
- **Boiling Point**: Decomposes before boiling
- Flash Point: Not applicable
- **Density** (at 20°C): ~1.4 g/cm<sup>3</sup>

# **Stability and Reactivity**

- Stability:
  - Stable under recommended storage and handling conditions.
- Reactivity:
  - Reacts with strong oxidizing agents and bases.
- Conditions to Avoid:
  - o Heat, moisture, and prolonged exposure to air.
- Hazardous Decomposition Products:
  - Emits carbon monoxide, carbon dioxide, and other potentially toxic gases upon combustion or decomposition.

### **Toxicological Information**

- Acute Toxicity:
  - Oral LD50 (rat): ~3800 mg/kg
  - o Dermal LD50 (rabbit): >2000 mg/kg
- Skin Irritation:
  - May cause mild to moderate irritation on direct contact.
- Eye Damage:
  - o Causes irritation, redness, or watering.
- Respiratory Effects:
  - Dust inhalation may cause mild irritation to the respiratory tract.
- Chronic Effects:
  - o Prolonged or repeated exposure may cause skin sensitization in some individuals.

### **Disposal Considerations**

- Waste Treatment Methods:
  - Dispose of according to local, regional, and national regulations. Avoid disposal into drains or water sources.
- Packaging:
  - Dispose of contaminated packaging as hazardous waste or recycle after proper cleaning according to local guidelines.