

## Material Safety Data Sheet for N-Butylphthalimide

### 1) Chemical and Company Identification

- **Product Name:** N-Butylphthalimide
  - **Company Information:** Antree Industry
    - **Address:** No. 50, Wenchuang Road, Fengqiao Town, Zhuji City, Zhejiang Province
    - **Website:** [www.antreeindustry.com](http://www.antreeindustry.com)
    - **Email:** [kristen.antreechem@gmail.com](mailto:kristen.antreechem@gmail.com)
    - **Contact Phone:** 400-0086-707
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### 2) Hazards Identification

- **Classification (GB 13690-2009):**
  - Physical Hazard: Unclassified
  - Health Hazard:
    - Skin Irritation: Category 2
    - Eye Irritation: Category 2
    - Skin Sensitization: Category 1
  - Environmental Hazard: Chronic aquatic toxicity: Category 3
- **Signal Word:** Warning



- **Hazard Statements:**
    - H315: Causes skin irritation.
    - H319: Causes serious eye irritation.
  - **Precautionary Statements:**
    - P261: Avoid inhalation of dust, fumes, mist, or vapor.
    - P273: Avoid release to the environment.
    - P280: Use protective gloves, clothing, and eye/face protection.
    - P302 + P352: If skin contact occurs, wash immediately with soap and plenty of water.
    - P333 + P313: If skin irritation or rash occurs, seek medical advice/attention.
    - P337 + P313: If eye irritation persists, seek medical advice/attention.
    - P362 + P364: Take off contaminated clothing and wash before reuse.
    - P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes. If wearing contact lenses and they can be easily removed, remove them and continue rinsing.
    - P501: Dispose of contents and container in accordance with local regulations.
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### 3) Composition/Information on Ingredients

Product or Mixture: Mixture

- **Chemical Name:** N-Butylphthalimide
  - **CAS Number:** 1515-72-6
  - **Purity:** 100%
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#### 4) First-Aid Measures

- **General Information:** Immediately remove all contaminated clothing.
  - **Inhalation:** Move the victim to fresh air and rest in a comfortable position. Seek medical advice if unwell.
  - **Skin Contact:** Wash immediately with soap and water. Remove contaminated clothing. Consult a doctor if irritation persists.
  - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing and seek medical advice if irritation persists.
  - **Ingestion:** Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention.
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#### 5) Fire-Fighting Measures

- **Unsuitable Extinguishing Media for Safety Reasons:** Uncertain.
  - **Suitable Extinguishing Media:** Water spray, foam, dry powder, or CO<sub>2</sub>.
  - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.
  - **Other Instructions:** Dispose of fire residues and contaminated water in accordance with local regulations.
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#### 6) Accidental Release Measures

- **Personal Precautions:** Use protective equipment to avoid direct contact.
  - **Environmental Precautions:** Prevent release into drains or waterways.
  - **Cleanup Methods:** Contain and collect the spill with sand, earth, or other absorbents. Dispose of according to local regulations.
  - **Others:** Further handling measures can be found in Section 13.
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#### 7) Handling and Storage

##### Safe Handling Recommendations:

- Use appropriate protective equipment to avoid contact with eyes and skin. Avoid inhalation and ingestion.
- Do not expose containers to heat sources, open flames, or sparks.

### **Fire and Explosion Prevention Recommendations:**

- Follow standard precautions for chemical substances with dust explosion hazards.
- Comply with national regulations.

### **Storage Room and Container Requirements:**

- Keep containers tightly sealed and store in a dry, cool, and well-ventilated area.
- Storage temperature should not exceed 50°C.

**Shelf Life:** 12 months.

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## **8) Exposure Controls/Personal Protection**

**Occupational Exposure Limits:** Not applicable.

### **General Protection Measures:**

- Avoid contact with eyes and skin. Immediately remove all contaminated clothing.

### **Hygiene Measures:**

- Keep away from food and drinks.
- Do not drink, eat, or smoke in the workplace.
- Wash hands during breaks and after work, and use skin protection cream.

### **Respiratory Protection:**

- Use a particulate filter respirator.

### **Hand Protection:**

- Use suitable gloves, such as PVC or nitrile gloves. Replace gloves immediately if contaminated.

### **Eye Protection:**

- Use safety goggles with side shields.

### **Body Protection:**

- Wear protective clothing.

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## **9) Physical and Chemical Properties**

**Appearance (25°C):** Liquid

**Color:** Light yellow

**Odor:** Low odor

**Melting Point:** None

**Flash Point:** Uncertain

**Boiling Point/Range:** >100°C

**Flammability:** Uncertain

**Combustibility:** Non-combustible

**Explosion Limits (Lower):** Uncertain

**Explosion Limits (Upper):** Uncertain

**Vapor Pressure:** Uncertain

**Decomposition Temperature:** None

**Vapor Density:** Uncertain

**Auto-Ignition Temperature:** None

**Solubility:** Insoluble in water

**Vapor Pressure:** Uncertain

**Chemical Reactivity:** None

**Evaporation Rate:** Uncertain

**Octanol/Water Partition Coefficient (log Kow):** Uncertain

**Ignition Temperature (°C):** Uncertain

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## 10) Stability and Reactivity

- **Thermal Decomposition:** Proper storage and handling prevent thermal decomposition.
  - **Hazardous Reactions:** No hazardous reactions.
  - **Hazardous Decomposition Products:** Not applicable.
  - **Avoidable Conditions:** None necessary.
  - **Avoidable Materials:** None necessary.
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## 11) Toxicological Information

- **Acute Oral Toxicity:** Uncertain
  - **Acute Inhalation Toxicity:** Uncertain
  - **Acute Dermal Toxicity:** Uncertain
  - **Skin Irritation:** Slight irritation to skin.
  - **Eye Irritation:** Irritation.
  - **Repeated Dose Toxicity:** Uncertain
  - **Mutagenicity:** Uncertain
  - **Teratogenicity:** Uncertain
  - **Carcinogenicity:** Uncertain
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## 12) Ecological Information

- **Chemical Degradability:** Degradable
- **Biodegradability:** Not rapidly degradable
  - **Method:** BOD<sub>5</sub>/COD < 0.5
- **Environmental Behavior:** Uncertain
- **Fish Toxicity:** Uncertain
- **Daphnia Toxicity:** Uncertain
- **Algae Toxicity:** Uncertain
- **Bacteria Toxicity:** Uncertain
- **Dissolved Organic Carbon (DOC):** Uncertain

- **Chemical Oxygen Demand (COD):** Uncertain
  - **Biochemical Oxygen Demand (BOD<sub>5</sub>):** < 50 mg/g
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### 13) Disposal Information

- **Product:** Disposal should comply with local, regional, national, and international regulations.
  - **Uncleaned Packaging:** Contaminated and empty containers should be treated the same as the product itself during disposal.
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### 14) Transport Information

- **ADR:** Non-hazardous goods
  - **ADNR:** Non-hazardous goods
  - **RID:** Non-hazardous goods
  - **IMDG:** Non-hazardous goods
  - **IATA\_C:** Non-hazardous goods
  - **IATA\_P:** Non-hazardous goods
  - **Others:** Avoid temperatures above 50°C. Store separately from food and beverages.
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### 15) Regulatory Information

#### China

#### Dangerous Goods Transportation

- **"List of Dangerous Goods":** Not regulated
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### 16) Other Information

- None
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