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## **MATERIAL SAFETY DATA SHEET**

### **QUINHYDRONE AR** **MSDS CAS : 106-34-3**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name : QUINHYDRONE AR**

**CAS#: 106-34-3**

**C.I. No.: Not available.**

**Synonym 2,5-Cyclohexadiene--1,4-dione complex with  
1,4-benzenediol (1:1)**

**Chemical Name : Not available.**

**Chemical Formula: C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>.C<sub>6</sub>H<sub>4</sub>O<sub>2</sub>**

**Brand: OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification: OXFORD LAB FINE CHEM LLP**  
**Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,**  
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**Mumbai, Maharashtra, INDIA.**  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

<b>Name</b>	<b>CAS #</b>	<b>% by Weight</b>
<b>QUINHYDRONE AR</b>	<b>106-34-3</b>	<b>100</b>

**Toxicological Data on Ingredients : Quinhydrone: ORAL (LD50): Acute: 225 mg/kg [Rat].**

## Section 3: Hazards Identification

### Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

### Potential Chronic Health Effects:

Very hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. **CARCINOGENIC EFFECTS:** Not available. **MUTAGENIC EFFECTS:** Not available. **TERATOGENIC EFFECTS:** Not available. **DEVELOPMENTAL TOXICITY:** Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

## Section 4: First Aid Measures

### **Eye Contact:**

Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

### **Skin Contact:**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Wash contaminated clothing before reusing.

### **Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

### **Inhalation:**

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

### **Serious Inhalation:**

Not available.

### **Ingestion:**

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

### **Serious Ingestion:**

Not available.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points: CLOSED CUP:** Higher than 93.3°C (200°F).

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...), halogenated compounds.

**Fire Hazards in Presence of Various Substances :** Slightly flammable to flammable in presence of heat.

**Explosion Hazards in Presence of Various Substances:**

**Risks of explosion of the product in presence of mechanical impact:** Not available. **Risks of explosion of the product in presence of static discharge:** Not available.

**Fire Fighting Media and Instructions:** SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

### Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7: Handling and Storage

### Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

## Section 7: Handling and Storage (Continued)

### Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## Section 8: Exposure Controls/Personal Protection

### **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### **Personal Protection :**

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.  
Gloves.

### **Personal Protection in Case of a Large Spill :**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### **Exposure Limits :**

Not available.

## Section 9: Physical and Chemical Properties

<b>Physical state and appearance</b>	<b>: Solid. (Powdered solid.)</b>
<b>Odor</b>	<b>: Not available.</b>
<b>Taste</b>	<b>: Not available.</b>
<b>Molecular Weight</b>	<b>: 218.21 g/mole</b>
<b>Color</b>	<b>: Green. Metallic.</b>
<b>pH (1% soln/water)</b>	<b>: Not available.</b>
<b>Boiling Point</b>	<b>: Decomposes.</b>
<b>Melting Point</b>	<b>: 173°C (343.4°F)</b>
<b>Critical Temperature</b>	<b>: Not available.</b>
<b>Specific Gravity</b>	<b>: 1.4 (Water = 1)</b>
<b>Vapor Pressure</b>	<b>: Not applicable.</b>

## Section 9: Physical and Chemical Properties (Continued)

Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: Not available.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.  
**Instability Temperature:** Not available.  
**Conditions of Instability:** Not available.  
**Incompatibility with various substances:** Reactive with oxidizing agents.  
**Corrosivity:** Non-corrosive in presence of glass.  
**Special Remarks on Reactivity:** Not available.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** No.

## Section 11: Toxicological Information

**Routes of Entry:** Dermal contact. Eye contact. Inhalation. Ingestion.  
**Toxicity to Animals:** Acute oral toxicity (LD50): 225 mg/kg [Rat].  
**Chronic Effects on Humans :** The substance is toxic to lungs, mucous membranes.  
**Other Toxic Effects on Humans :** Very hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.  
**Special Remarks on Toxicity to Animals:** Not available.  
**Special Remarks on Chronic Effects on Humans:** Not available.  
**Special Remarks on other Toxic Effects on Humans:** Not available.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.  
**BOD5 and COD:** Not available.

## Section 12: Ecological Information (Continued)

### Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** May decompose in the presence of light. May decompose on exposure to moist air and water.

## Section 13: Disposal Considerations

### Waste Disposal:

## Section 14: Transport Information

### Land transport (ADR-RID)

General information : Not regulated.

### Sea transport (IMDG) [English only]

General information : Not regulated.

### Air transport (ICAO-IATA) [English only]

General information : Not regulated.

## Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: Quinaldine Red

**Other Regulations:** This product is on the European Inventory of Existing Commercial Chemical Substances.

### **Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):** This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes. S37- Wear suitable gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## Section 15: Other Regulatory Information (Continued)

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

## Section 15: Other Regulatory Information (Continued)

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

## Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

### *Disclaimer:*

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