

Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	Quinhydrone, 97%	
<b>NCL Catalog Number</b>	<b>Q-25</b>	
<b>Product Description</b>	Laboratory chemical	
<b>Manufacturer</b>	EMD Chemicals Inc.	PO Box 70, 480 Democrat Road Gibbstown, NJ 08027
<b>Supplier</b>	NCL of Wisconsin, Inc. Telephone: 1-800-648-7836 Email: <a href="mailto:nclabs@nclabs.com">nclabs@nclabs.com</a>	PO Box 8, Birnamwood, WI 54414 Fax: 715-449-2454 Emergency Contact: 1-800-424-9300 (Chemtrec)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification**

Acute Toxicity	Oral Category 3
Skin Irritation	Category 2
Eye Irritation	Category 2A
Specific Target Organ Toxicity	Single Exposure Category 3



**Signal Word** Danger

**Hazard Statements**

H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

**Precautionary Statements**

P261	Avoid breathing dust.
P264	Wash exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to comply with local, state and federal regulations.

**Other Hazards Not Contributing to the Classification**

None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Formula**  $C_6H_6O_2 \cdot C_6H_4O_2$   
**Molecular Weight** 218.21 g/mol

**Substance**

Name	CAS #	Approximate %
Quinhydrone, 97%	106-34-3	100

**SECTION 4: FIRST AID MEASURES**

**Description of First Aid Measures**

**General First Aid Measures**

Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

**If Inhaled**

Remove person to fresh air and keep at rest in a position comfortable for breathing. If experience respiratory symptoms: Call a POISON CENTER or doctor.

**In Case of Skin Contact**

Remove/take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

**In Case of Eye Contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor if irritation persists.

**If Swallowed**

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

**Most Important Symptoms/Effects Acute and Delayed**

No additional information.

**Indication of Immediate Medical Attention and Special Treatment Needed**

Seek medical advice if you feel unwell.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Adapt extinguishing media to the environment.

**Unsuitable Extinguishing Media**

Do not use a heavy water stream.

**Special Hazards Arising from the Chemical**

No data available.

**Special Protective Actions for Fire-Fighters**

Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray. Dilute toxic gases with water spray.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions**

Use personal protective equipment (see section 8). Safety glasses, gloves, gas/dust mask. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation and evacuate personnel to safe areas.

**Environmental Precautions**

Prevent entry to surface and ground waters.

**Methods and Materials for Containment and Cleaning Up**

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Ensure compliance with local, state and federal regulations.

## SECTION 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Remove contaminated clothing immediately. Clean contaminated clothing. Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
<b>Conditions for Safe Storage Including any Incompatibilities</b>	Keep in original container, tightly closed and stored in a cool, dry, ventilated area. Store under nitrogen.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Control Parameters</b>	No data available
<b>Appropriate Engineering Controls</b>	Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.
<b>Individual Protection Measures</b>	Avoid all unnecessary exposure.
<b>Eye/Face Protection</b>	Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.
<b>Skin Protection</b>	Protective gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.
<b>Respiratory Protection</b>	Wear appropriate mask.
<b>Other Information</b>	Do not eat, drink or smoke when using this product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid, crystalline
<b>Color</b>	Green
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting Point</b>	167°C
<b>Initial Boiling Point and Boiling Range</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Solubility</b>	Not determined
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	Direct sunlight and air sensitive

**Incompatible Materials** Strong oxidizing agents  
**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	Toxic if swallowed.
<b>Quinhydrone (106-34-3)</b>	
<b>LD50 oral rat</b>	225 mg/kg
<b>Skin Corrosion/Irritation</b>	Causes skin irritation.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye irritation.
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	May cause respiratory irritation.
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	Toxic if swallowed.
<b>Other Information</b>	No additional information

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Ecological Toxicity</b>	Not applicable
<b>Persistence and Degradability</b>	Not applicable
<b>Bioaccumulative Potential</b>	Not applicable
<b>Mobility in Soil</b>	Not applicable
<b>Other Adverse Effects</b>	Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Methods of Disposal

<b>Disposal Recommendations</b>	Dispose of contents/containers in accordance with local, state and federal regulations.
<b>Other Information</b>	Avoid release to the environment.

**SECTION 14: TRANSPORT INFORMATION**

<b>UN Number</b>	2811
<b>UN Shipping Name</b>	Toxic solids, organic, n.o.s. (Quinhydrone)
<b>Transport Hazard Class(es)</b>	6.1
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	Not applicable
<b>Transport in Bulk</b>	Not applicable
<b>Other Precautions</b>	Not applicable

**SECTION 15: REGULATORY INFORMATION**

<b>Quinhydrone (106-34-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 313 (Specific Toxic Chemical Listings)

**SECTION 16: OTHER INFORMATION**

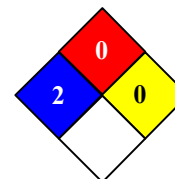
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**NFPA Hazards**

**Health Hazard** 2: Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**Fire Hazard** 0: Materials that will not burn under typical fire conditions.

**Reactivity/Instability** 0: Normally stable, even under fire conditions, and is not reactive with water.



**HMIS III Rating**

**Health** 2: Temporary or minor injury may occur.

**Flammability** 0: Materials that will not burn.

**Physical Hazard** 0: Materials that are normally stable, even under fire conditions, and will not react with water.

**Personal Protection** C

Q-25	
Health	2
Flammability	0
Physical Hazard	0
Personal Protection	C

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**END OF SAFETY DATA SHEET**