

## Section 1 - Chemical Product and Company Identification

**GHS Product Identifier**

B115, B125 Quinhydrone

**Product Name**

Quinhydrone

**Manufacturer Name**

Sensorex Corporation

**Recommended Use/ Restrictions on Use**

Use as redox additive in ORP standardizing solution. Not for household use.

**Address (Number, Street, City, State and Zip Code)**

11751 Markon Drive

Garden Grove, CA. 92841 USA

**Emergency Telephone Number (24 hr)** (800) 222-1222

American Association of Poison Control Centers

**Telephone Number for Information**

714-895-4344

## Section 2 - Hazards Identification

**GHS Classification:** Acute toxicity, oral (Category 3), H301. Skin irritation (Category 2), H315. Eye irritation (Category 2A), H319. Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335.

### GHS Label Elements

**Pictogram:**

**Signal Word:**
**Danger**
**Hazard Statements:**

H301 - Toxic if swallowed.  
 H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.

**Precautionary Statements:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 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, protective clothing, eye protection, face protection.  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
 P321 - Specific treatment (see supplemental first aid instructions on this label.)  
 P330 - Rinse mouth.  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention.  
 P337 + P313 - If eye irritation occurs: Get medical advice/attention.  
 P362 - Take off contaminated clothing and wash before reuse.  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P405 - Store locked up.  
 P406 - Store in corrosive resistant stainless steel container with a resistant inner liner.  
 P501 - Dispose of contents/container to an approved waste disposal plant.

**Other hazards not classified or covered by GHS:** None

## Section 3 - Composition/Ingredient information

Chemical Identity	CAS Registry #	EC#	Percent Weight (%)
Quinhydrone	106-34-3	203-387-6	100

## Section 4 - First Aid Measures

### Description of Necessary First Aid Measures:

**General:** Consult a physician. Present this safety data sheet to the doctor in attendance. Move out of dangerous area.

**IF INHALED:** Move person into fresh air. If not breathing, perform rescue breathing and contact emergency medical personnel. If breathing is difficult, give oxygen.

**SKIN CONTACT:** Wash off with soap and plenty of water. Immediately take victim to hospital. Consult a physician.

**INGESTION:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**EYE CONTACT:** Irrigate immediately with large quantity of water for at least 15 minutes. Get medical attention immediately.

### Most important symptoms/effects, acute and delayed:

**INHALATION:** Irritation of respiratory tract.

**SKIN CONTACT:** Irritation.

**EYE CONTACT:** Irritation.

**INGESTION:** No additional data available.

### Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available

## Section 5 - Fire-fighting Measures

### Suitable extinguishing media:

**SUITABLE:** Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**UNSUITABLE:** No unsuitable extinguishing media known.

### Specific hazards arising from the chemical (combustion products):

Carbon oxides

### Special protective actions for fire-fighters:

Wear self-contained breathing apparatus for fire-fighting if necessary.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency responders:

Wear respiratory protection. Avoid dust and aerosol formation. Ensure adequate ventilation. Refer to Section 8 for Personal Protective Equipment.

### Environmental precautions:

Do not let product enter drains.

### Methods and materials for containment and cleaning up:

Sweep up spill area and shovel. Keep in suitable, closed container for disposal.

## Section 7 - Handling and Storage

### Precautions for safe handling:

Keep away from sources of ignition. Empty containers pose a fire risk. 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 attention immediately and show the container or the label. Avoid contact with skin and eyes.

### Conditions for safe storage, including any incompatibles:

Keep container dry. Keep in a cool, well-ventilated place. Keep container tightly closed. Combustible materials should be stored away from extreme heat. Protect from direct sunlight.

**INCOMPATIBLE MATERIALS:** Strong oxidizers.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters:

No exposure limits noted for ingredient(s).

### Appropriate Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### Individual protection measures, personal protective equipment:

**RESPIRATORY PROTECTION:** For conditions of use where exposure to dust or mist is apparent, a properly fitted, air-purifying or air-fed respirator must be worn.

**SKIN PROTECTION:** Wear impervious clothing, boots, chemical resistant gloves, lab coat, apron or coveralls to prevent skin contact.

**EYE PROTECTION:** Use chemical safety goggles and or a full face shield where splash is possible. Maintain eyewash fountain.

## Section 9 - Physical and Chemical Properties

<b>APPEARANCE:</b> Dark green crystalline powder	<b>pH:</b> No data available
<b>ODOR:</b> No data available	<b>BOILING POINT (°C):</b> No data available
<b>ODOR THRESHOLD:</b> No data available	<b>MELTING POINT (°C):</b> 167 - 172
<b>FLASH POINT:</b> No data available	<b>FLAMMABILITY:</b> No data available
<b>VAPOR PRESSURE:</b> No data available	<b>VAPOR DENSITY:</b> No data available
<b>RELATIVE DENSITY:</b> No data available	<b>SOLUBILITY IN WATER:</b> Sparingly
	<b>PARTITION COEFFICIENT (n-octanol/water):</b> No data available
	<b>UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:</b> No data available
	<b>EVAPORATION RATE compared with (n-butyl acetate = 1):</b> N/A
<b>VISCOSITY:</b> N/A	<b>AUTO-IGNITION TEMPERATURE:</b> No data available
	<b>DECOMPOSITION TEMPERATURE:</b> No data available

## Section 10 - Stability and Reactivity

<b>REACTIVITY:</b> No data available	<b>CHEMICAL STABILITY:</b> Stable under normal conditions of storage.
<b>CONDITIONS TO AVOID:</b> Exposure to air. Exposure to light.	<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b> Hazardous polymerization will not occur.
<b>INCOMPATIBLE MATERIALS:</b> Strong oxidizers.	<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> No data available

## Section 11 - Toxicological Information

**Acute toxicity:** Category 3 (Oral).  
**Skin corrosion/irritation:** Category 2.  
**Serious eye damage/irritation:** Category 2A.  
**Respiratory or skin sensitization:** Not classified.  
**Germ cell mutagenicity:** Not classified.  
**Carcinogenicity:** Not classified.  
**Reproductive toxicity:** Not classified.  
**STOT Single exposure:** Not classified.  
**STOT Repeated exposure:** Not classified.  
**Aspiration hazard:** Not classified.

**Symptoms related to the physical, chemical and toxicological characteristics:**  
 No data available

**Delayed and immediate effects also chronic from short and long term exposure:**  
 No data available

**Numerical measure of toxicity:**  
 TOXICITY DATA United States: Quinhydrone. LD50 225 mg/kg oral rat.

## Section 12 - Ecological Information

**ECOTOXICITY:**

No data available

**PERSISTENCE AND DEGRADABILITY:** No data available

**BIOACCUMULATIVE POTENTIAL:** No data available

**MOBILITY IN SOIL:** No data available

**OTHER ADVERSE EFFECTS:** No data available

## Section 13 - Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Disposal should be in accordance with all applicable regional, national and local laws and regulations.

## Section 14 - Transportation Information

**UN NUMBER:** 2811

**UN PROPER SHIPPING NAME:** Toxic solids, organic, n.o.s. (Quinhydrone)

**TRANSPORT HAZARD CLASS(ES):** 6.1

**PACKING GROUP:** III - Minor danger

**ENVIRONMENTAL HAZARD:** Not a marine pollutant

## Section 15 - Regulatory Information - (NOT ALL INCLUSIVE)

**UNITED STATES**

**OSHA STATUS:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**TSCA Status:** TSCA 8(b) inventory: Quinhydrone.

**CERCLA Reportable Quantity:** N/A.

**SARA Title III:** Section 302 Extremely hazardous substances: N/A.

Section 311/312 Hazardous categories:

Acute: Yes

Chronic: Yes

Fire: No

Pressure: No

Reactivity: No

**RCRA Status:** N/A

**WHMIS (Canada):** Class D-1B: Material causing immediate toxic effects (Toxic).

Class D-2A: Material cause other toxic effects (Very Toxic).

**DSDL (EEC):** R22 - Harmful if swallowed.

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

## Section 16 - Other Information

**Date of preparation: March, 2015**

This SDS replaces MSDS Quinhydrone RevA - 3/3/2008.

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Sensorex Corporation assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

**Full text of Hazard Statements referred to in Section 2:**

H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.



11751 Markon Dr.  
Garden Grove, CA 92841 USA  
Tel: 714-895-4344  
Fax: 714-894-4839  
E-mail: [info@sensorex.com](mailto:info@sensorex.com)  
[www.sensorex.com](http://www.sensorex.com)