

## SAFETY DATA SHEET

## Quinhydrone

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**SECTION 1: Identification of the substance / mixture and of the company / undertaking**

Date issued 30.11.2017

**1.1. Product identifier**

Product name Quinhydrone  
CAS No. 106-34-3  
EC No. 203-387-6  
Article no. 347645

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance / preparation Laboratory Chemicals

**1.3. Details of the supplier of the safety data sheet**

Company name LabService i Sundsvall AB  
Postal address Södra Förmansvägen 7  
Postcode 857 53  
City SUNDSVALL  
Country Sweden  
Telephone number +46 60525970  
Fax 060-52 50 99  
Email [info@labservice.se](mailto:info@labservice.se)  
Website <http://www.labservice.se>

**1.4. Emergency telephone number**

Emergency telephone Telephone number: 115  
Description: Emergency contact number for ambulance/first aid. (Vietnam)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Acute tox. 3; H301
	Skin Irrit. 2; H315
	Eye Irrit. 2; H319
	STOT SE 3; H335

## 2.2. Label elements

### Hazard pictograms (CLP)



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	P270 Do not eat, drink or smoke when using this product. 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 person to fresh air and keep 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.

## 2.3. Other hazards

PBT / vPvB	The substance does not meet the criteria for PBT or vPvB.
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## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Substance	Identification	Classification	Contents	Notes
Quinhydrone	CAS No.: 106-34-3 EC No.: 203-387-6	Acute tox. 3; H301 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	95 – 100 %	
Substance comments	The full text for all hazard statements is displayed in section 16.			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
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Skin contact	Wash skin with soap and water. Get medical advice/attention if you feel unwell.
Eye contact	Promptly wash eyes with plenty of water while lifting the eye lids. Get medical advice/attention if you feel unwell.
Ingestion	Get immediate medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	The product is toxic if swallowed. The product is irritating in contact with skin and eyes and / or inhalation.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	Not known.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Choose extinguishing media depending on surrounding fire. This product is not flammable.
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#### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable.
Hazardous combustion products	In case of fire, toxic fumes / gases may form. In case of fire, irritant vapors / gases may form.

#### 5.3. Advice for firefighters

Personal protective equipment	Use personal protective equipment as required.
Fire fighting procedures	Fight fire with normal precautions from a reasonable distance. No specific fire fighting procedure given.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Look out! The product is poisonous. Avoid inhalation of dust. Avoid contact with skin and eyes.
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#### 6.2. Environmental precautions

Environmental precautionary measures	Prevent entry into drains.
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#### 6.3. Methods and material for containment and cleaning up

Clean up	Collect spillage. Dispose of in accordance with local regulations.
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#### 6.4. Reference to other sections

Other instructions	For personal protection, see section 8 For waste, see Section 13
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Work practice should minimize contact. Observe good chemical hygiene practices. Container must be kept tightly closed. Mechanical ventilation or local exhaust ventilation may be required. Eye wash facilities and emergency shower must be available when handling this product. Wash hands before breaks and before smoking, eating or drinking. Avoid spilling, skin and eye contact.
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### Protective safety measures

Protective safety measures	Avoid inhalation of dust. Avoid contact with skin and eyes.
Preventitive measures to protect the environment	Prevent discharge into sewage and environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Toxic storage.
Conditions to avoid	Do not allow contact with air. Protect from sunlight.

### 7.3. Specific end use(s)

Recommendations	Do not handle until all safety precautions have been read and understood.
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## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Other Information about threshold limit values	Contains no substances with occupational exposure limits.
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### 8.2. Exposure controls

#### Safety signs



### Precautionary measures to prevent exposure

Instruction on measures to prevent exposure	Wash hands before breaks, before using the toilet and after finishing work. Use protective equipment listed below when using this product.
Technical measures to prevent exposure	Work in fume cupboard.

### Eye / face protection

Suitable eye protection	Wear approved chemical safety goggles where eye exposure is reasonably probable.
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## Hand protection

Suitable materials	Gloves of nitrile rubber, PVA or Viton are recommended.
Hand protection, comments	Protective gloves should be used if there is a risk of direct contact or splash.

## Skin protection

Skin protection remark	In case of skin contact, suitable protective clothing should be used.
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## Respiratory protection

Respiratory protection, comments	In case of inadequate ventilation wear respiratory protection.
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## Hygiene / environmental

Specific hygiene measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
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## Appropriate environmental exposure control

Environmental exposure controls	Prevent discharge into sewers.
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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid Powder, dust.
Colour	Dark green
Odour	Data lacking.
Odour limit	Comments: Data lacking.
pH	Comments: Data lacking.
Melting point / melting range	Value: 167 – 172 °C
Boiling point / boiling range	Comments: Data lacking.
Flash point	Comments: Data lacking.
Vapour pressure	Value: 7,6 kPa
Vapour density	Comments: Data lacking.
Density	Value: 1,4 g/cm <sup>3</sup>
Solubility	Medium: Water Value: 4 g/l Temperature: 20 °C
Partition coefficient: n-octanol/ water	Comments: Data lacking.
Auto-ignition temperature	Comments: Data lacking.
Decomposition temperature	Comments: Data lacking.
Viscosity	Comments: Data lacking.
Oxidising properties	Data lacking.

## 9.2. Other information

### Other physical and chemical properties

Physical and chemical properties      Data lacking.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity      There are no known conditions that are likely to result in a hazardous situation.  
There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stability      Stable under the prescribed storage conditions. Do not allow contact with air.  
Protect from sunlight.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions      No recommendation given.

### 10.4. Conditions to avoid

Conditions to avoid      Keep cool. Protect from sunlight. Do not allow contact with air.

### 10.5. Incompatible materials

Materials to avoid      No recommendation given.

### 10.6. Hazardous decomposition products

Hazardous decomposition products      None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Substance      Quinhydrone

Acute toxicity      **Type of toxicity:** Acute  
**Effect tested:** LD50  
**Route of exposure:** Oral  
**Value:** 225 mg/kg bw  
**Animal test species:** Rat

### Other information regarding health hazards

Inhalation      Inhalation can lead to respiratory tract irritation.

Skin contact      Irritates the skin

Eye contact      Causes serious eye irritation.

Ingestion      Toxic if swallowed.

Sensitisation	No known chronic or acute health risks.
Mutagenicity	No known chronic or acute health risks.
Carcinogenicity, other information	This substance has no evidence of carcinogenic properties.
Reproductive toxicity	No known chronic or acute health risks.

## SECTION 12: Ecological information

### 12.1. Toxicity

### 12.2. Persistence and degradability

Persistence and degradability, comments	There are no data on the degradability of this product.
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### 12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
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### 12.4. Mobility in soil

Mobility	No information.
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### 12.5. Results of PBT and vPvB assessment

vPvB evaluation results	The ingredients in the mixture does not meet the criteria for PBT or vPvB.
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### 12.6. Other adverse effects

Other adverse effects, comments	None known.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Confirm disposal procedures with environmental engineer and local regulations.
EWC waste code	EWC waste code: 160506 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes

## SECTION 14: Transport information

Dangerous goods	Yes
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### 14.1. UN number

ADR/RID/ADN	2811
IMDG	2811

ICAO/IATA	2811
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#### 14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	TOXIC SOLID, ORGANIC, N.O.S.
ADR/RID/ADN	TOXIC SOLID, ORGANIC, N.O.S.
IMDG	TOXIC SOLID, ORGANIC, N.O.S.
ICAO/IATA	TOXIC SOLID, ORGANIC, N.O.S.

#### 14.3. Transport hazard class(es)

ADR/RID/ADN	6.1
Classification code ADR/RID/ADN	T2
IMDG	6.1
ICAO/IATA	6.1

#### 14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO/IATA	III

#### 14.5. Environmental hazards

Comments	See sections 2 and 12.
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#### 14.6. Special precautions for user

Special safety precautions for user	No recommendation given.
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#### 14.7. Maritime transport in bulk according to IMO instruments

Product name	TOXIC SOLID, ORGANIC, N.O.S.
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#### Additional information

Hazard label ADR/RID/ADN	6.1
Hazard label IMDG	6.1
Hazard label ICAO/IATA	6.1

#### ADR/RID Other information

Tunnel restriction code	E
Transport category	2
Hazard No.	60
Other applicable information ADR/ RID	60



**IMDG Other information**

EmS	F-A, S-A
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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

Legislation and regulations	The data shown are in accordance with the latest EC Directives.
Comments	For use in industrial installations or professional treatment only.

**15.2. Chemical safety assessment**

Chemical safety assessment performed	No
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**SECTION 16: Other information**

Supplier's notes	This product can cause serious injury if misused. Read and follow the instructions in this safety data sheet. The employer is responsible for ensuring that staff are well aware of the dangers when using the product.
List of relevant H-phrases (Section 2 and 3)	H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Acute tox. 3; H301 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335
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