Printing date 03/19/2024 Reviewed on 03/19/2024

## 1 Identification

· Product identifier

· Trade name: Hydroquinone, Laboratory Grade Crystal

· Article number: H3500

· CAS Number: 123-31-9 · EC number: 204-617-8

· Index number: 604-005-00-4

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA

800-256-2586

· Information department:

Technical Coordinator

Sherman Nelson shermann@aquasolutions.org

· Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666



## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Germ Cell Mutagenicity 2 H341 Suspected of causing genetic defects.

Carcinogenicity 2 H351 Suspected of causing cancer.



GHS05 Corrosion

Eye Damage 1 H318 Causes serious eye damage.



GHS07

H302 Harmful if swallowed. Acute Toxicity - Oral 4

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

(Contd. of page 1)

## Safety Data Sheet acc. to OSHA HCS

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### Trade name: Hydroquinone, Laboratory Grade Crystal

#### · Hazard pictograms







- · Signal word Danger
- · Hazard statements

Harmful if swallowed.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Suspected of causing cancer.

#### · Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

*Immediately call a poison center/doctor.* 

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



\*3 *Health* = \*3 Fire = 1

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

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Trade name: Hydroquinone, Laboratory Grade Crystal

(Contd. of page 2)

## 3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description

CAS: 123-31-9 1,4-dihydroxybenzene

· Identification number(s) · EC number: 204-617-8 · Index number: 604-005-00-4

### 4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- · Protective Action Criteria for Chemicals
- · PAC-1: 3 mg/m3
- · PAC-2: 20 mg/m<sup>3</sup>

(Contd. on page 4)

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· PAC-3: 120 mg/m3

(Contd. of page 3)

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling Thorough dedusting.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

## CAS: 123-31-9 1,4-dihydroxybenzene

PEL Long-term value: 2 mg/m<sup>3</sup>
REL Ceiling limit value: 2\* mg/m<sup>3</sup>
\*15-min

TLV Long-term value: 1 mg/m<sup>3</sup>

DSEN, A3

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

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Information on basic physical and chemical properties General Information Appearance: Form: Color: White Odor: Odor threshold: Not determined.  PH-value: Not applicable.  Change in condition Melting point/Melting range: Boiling point/Boiling range: Boiling point/Boiling range: 172.3 °C (342.1 °F) Boiling point/Boiling range: Boiling point/Boiling range: 185 °C (545 °F)  Flash point: Flammability (solid, gaseous): Product is not flammable.  Auto igniting: 151 °C (959 °F)  Decomposition temperature: Not determined.  Ignition temperature: Not determined.  Explosion limits: Lower: Upper: Not determined. Vapor pressure at 20 °C (68 °F): Not determined.  Vapor pressure at 50 °C (122 °F): 0.00015 hPa (0 mm Hg) Vapor pressure at 50 °C (122 °F): Not applicable.  Solubility in / Miscibility with Water at 20 °C (68 °F): Not applicable.  Solubility in / Miscibility with Water at 20 °C (68 °F): Not applicable.  Volumatic: Not applicable.			
- Appearance: Form: Color: White Odor: Odor theshold: Not determined.  - PH-value: Not applicable.  - Change in condition Melting point/Melting range: Boiling point/Boiling range: Boiling point/Boiling range: Boiling point/Boiling range: Boiling point/Boiling range:  - Flash point: - Flash point: - Flammability (solid, gaseous): - Product is not flammable Auto igniting: - S15 °C (329 °F)  - Decomposition temperature: Not determined Ignition temperature: Not determined Danger of explosion: - Product does not present an explosion hazard.  - Explosion limits: Lower: Lower: Not determined Vapor pressure at 20 °C (68 °F): Not determined Vapor pressure at 50 °C (122 °F): - O.00015 hPa (0 mm Hg) - Vapor pressure at 50 °C (122 °F): - Relative density Not applicable Solubility in / Miscibility with Water at 20 °C (68 °F): - Partition coefficient (n-octanol/water): Not determined Viscosity: Dynamic: Not applicable.	· Information on basic physical and chemical properties		
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Form: Color: White Odor: Odor threshold: Not determined.  - pH-value: Not applicable.  - Change in condition Melting point/Melting range: Boiling point/Melting range: Boiling point/Boiling range: 172.3 °C (342.1 °F) Boiling point/Boiling range: 285 °C (545 °F)  - Flash point: 165 °C (329 °F)  - Flammability (solid, gaseous): Product is not flammable.  - Auto igniting: 515 °C (959 °F)  - Decomposition temperature: Not determined Ignition temperature: Not determined.  - Danger of explosion: Product does not present an explosion hazard.  - Explosion limits: Lower: Upper: Not determined.  - Vapor pressure at 20 °C (68 °F): Vapor pressure at 50 °C (122 °F): 0.00015 hPa (0 mm Hg) Vapor pressure at 50 °C (122 °F): 0.0019 hPa (0 mm Hg) - Density at 20 °C (68 °F): Relative density Not determined.  - Vapor density Not determined Not applicable.  - Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water): Not determined.  - Viscosity: Dynamic: Not applicable.			
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- Odor threshold: Not applicable.  - PH-value: Not applicable.  - Change in condition Melting point/Melting range: 172.3 °C (342.1 °F) 80iling point/Boiling range: 285 °C (545 °F)  - Flash point: 165 °C (329 °F)  - Flammability (solid, gaseous): Product is not flammable.  - Auto igniting: 515 °C (959 °F)  - Decomposition temperature: Not determined.  - Ignition temperature: Not determined.  - Danger of explosion: Product does not present an explosion hazard.  - Explosion limits: Not determined.  - Upper: Not determined.  - Vapor pressure at 20 °C (68 °F): 0.00015 hPa (0 mm Hg)  - Vapor pressure at 50 °C (122 °F): 0.0019 hPa (0 mm Hg)  - Density at 20 °C (68 °F): 1.328 g/cm³ (11.08216 lbs/gal)  - Relative density Not applicable.  - Solubility in / Miscibility with Water at 20 °C (68 °F): 72 g/l  - Partition coefficient (n-octanol/water): Not determined.  - Viscosity: Dynamic: Not applicable.	Color:	White	
PH-value:  Change in condition Melting point/Melting range: Boiling point/Boiling range: 285 °C (342.1 °F)  Flash point:  165 °C (329 °F)  Flammability (solid, gaseous): Product is not flammable.  Auto igniting:  515 °C (959 °F)  Decomposition temperature: Not determined.  Ignition temperature: Not determined.  Product does not present an explosion hazard.  Explosion limits: Lower: Not determined.  Vapor pressure at 20 °C (68 °F): 0.00015 hPa (0 mm Hg)  Density at 20 °C (68 °F): Relative density Not applicable.  Solubility in / Miscibility with Water at 20 °C (68 °F): 72 g/l  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable.	· Odor:	Odorless	
Change in condition Melting point/Melting range: Boiling point/Boiling range: 172.3 °C (342.1 °F) 285 °C (545 °F)  Flash point: 165 °C (329 °F)  Flammability (solid, gaseous): Product is not flammable.  Auto igniting: 515 °C (959 °F)  Decomposition temperature: Not determined.  Ignition temperature: Not determined.  Danger of explosion: Product does not present an explosion hazard.  Explosion limits: Lower: Upper: Not determined.  Vapor pressure at 20 °C (68 °F): 0.00015 hPa (0 mm Hg) Vapor pressure at 50 °C (122 °F): 0.0019 hPa (0 mm Hg)  Density at 20 °C (68 °F): 1.328 g/cm³ (11.08216 lbs/gal) Relative density Not determined.  Vapor density Not applicable.  Solubility in / Miscibility with Water at 20 °C (68 °F): 72 g/l  Partition coefficient (n-octanol/water): Not determined.	· Odor threshold:	Not determined.	
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· Vapor pressure at 20 °C (68 °F): · Vapor pressure at 50 °C (122 °F):  · Density at 20 °C (68 °F): · Relative density · Vapor density · Vapor density · Evaporation rate  · Solubility in / Miscibility with Water at 20 °C (68 °F):  · Partition coefficient (n-octanol/water): Not determined.  · Viscosity: Dynamic:  Not applicable.	Lower:	Not determined.	
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Relative density Not determined.  Vapor density Not applicable.  Evaporation rate Not applicable.  Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable.		,	
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<ul> <li>Evaporation rate Not applicable.</li> <li>Solubility in / Miscibility with Water at 20 °C (68 °F): 72 g/l</li> <li>Partition coefficient (n-octanol/water): Not determined.</li> <li>Viscosity: Dynamic: Not applicable.</li> </ul>			
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· Viscosity:  Dynamic: Not applicable.		72 g/l	
Dynamic: Not applicable.	· Partition coefficient (n-octanol/water): Not determined.		
Dynamic: Not applicable.	· Viscosity:		
		Not applicable.	
	Kinematic:		

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Trade name: Hydroquinone, Laboratory Grade Crystal

(Contd. of page 5)

· Other information

No further relevant information available.

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

Oral LD50 500 mg/kg (ATE)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 3
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

TIC

Printing date 03/19/2024 Reviewed on 03/19/2024

Trade name: Hydroquinone, Laboratory Grade Crystal

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

(Contd. of page 6)

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number · DOT, IMDG, IATA	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o
· IMDG, IATA	(hydroquinone) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLI N.O.S. (hydroquinone)
Transport hazard class(es)	
$\cdot DOT$	
· Class	6.1 Toxic substances
· Label	9
· Class	6.1 Toxic substances
· Label	9
· Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Toxic substances
Hazard identification number (Kemler code)	
EMS Number:	F-A,S-A
Stowage Category	A

Not applicable.

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Trade name: Hydroquinone, Laboratory Grade Crystal

	(Contd. of page 7)
$\cdot \textit{Transport/Additional information:}$	
· DOT · Quantity limitations	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
· Hazardous substance:	100 lbs, 45.4 kg
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN ''Model Regulation'':	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (HYDROQUINONE), 9, III

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · Section 355 (extremely hazardous substances): Substance is listed.
- · Section 313 (Specific toxic chemical listings): Substance is listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) A3
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS05

GHS07

GHS08

· Signal word Danger

### · Hazard statements

Harmful if swallowed.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Suspected of causing cancer.

#### · Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

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### Trade name: Hydroquinone, Laboratory Grade Crystal

(Contd. of page 8)

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact:

Date of Preparation / Last Revision:

· Date of preparation / last revision

Revision 1.1, 03-09-2024: updated DOT Description. STN

Creation date for SDS 07-16-2015. STN

03/19/2024

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity - Category 4

Eye Damage 1: Serious eye damage/eye irritation - Category 1

Sensitization - Skin 1: Skin sensitisation - Category 1

Germ Cell Mutagenicity 2: Germ cell mutagenicity - Category 2

Carcinogenicity 2: Carcinogenicity – Category 2

\* Data compared to the previous version altered.

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