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1 Identification · Product identifier · Trade name: Hydroquinone 1.0 gm/L in Methanol • Article number: SPX326 · 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 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 GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS06 Skull and crossbones Acute Toxicity - Oral 3 H301 Toxic if swallowed. H311 Toxic in contact with skin. Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard H351 Suspected of causing cancer. Carcinogenicity 2 Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.

GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

· Label elements

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

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(Contd. of page 1) · Hazard pictograms GHS02 GHS06 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol 1,4-dihydroxybenzene · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to the central nervous system and the visual organs. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 3Reactivity = 0(Contd. on page 3)

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99.9%

0.1%

· HMIS-ratings (scale 0 - 4)

HEALTH*2Health =
$$*2$$
FIRE3Fire = 3REACTIVITY0Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 67-56-1 Methanol CAS: 123-31-9 1,4-dihydroxybenzene

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

- *Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.*
- After inhalation:

Supply fresh air or oxygen; call for 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: Do not induce vomiting; immediately call for medical help.
- 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture

- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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Personal preca	utions, protective equipment and emergency procedures	
	bry protective device.	
*	equipment. Keep unprotected persons away.	
Environmental		
Do not allow pr	oduct to reach sewage system or any water course.	
Inform respectiv	e authorities in case of seepage into water course or sewage system.	
Dilute with plen		
	enter sewers/ surface or ground water.	
	aterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
*	inated material as waste according to section 13.	
Ensure adequat		
Reference to ot		
	r information on safe handling.	
	r information on personal protection equipment.	
	for disposal information. In Criteria for Chemicals	
PAC-1:		
CAS: 67-56-1	Mathanal	520 nn
		530 pp
CAS: 123-31-9	1,4-dihydroxybenzene	3 mg/m
<i>PAC-2:</i>		
CAS: 67-56-1	Methanol	2,100 pp
CAS: 123-31-9	1,4-dihydroxybenzene	20 mg/m [.]
PAC-3:		
		7200*
CAS: 67-56-1	Methanol	7200* pp

7 Handling and storage

- · Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

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• *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: 67-56-1 Methanol

- PEL Long-term value: 260 mg/m³, 200 ppm
- REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
- TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI

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

- PEL Long-term value: 2 mg/m³ REL Ceiling limit value: 2* mg/m³ *15-min
- TLV Long-term value: 1 mg/m³ DSEN, A3

· Ingredients with biological limit values:

CAS: 67-56-1 Methanol

BEI 15 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)

• 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. Store protective clothing separately. Avoid contact with the eyes and skin.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• 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.

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[·] Breathing equipment:

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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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

9 Physical and chemical properties

Information on basic physical and c	hemical properties
General Information	
Appearance: Form:	Liquid
Color:	Clear
Odor:	de l'alcool
	,
Odor threshold:	l Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-97.8 °C (-144 °F)
Boiling point/Boiling range:	64 °C (147.2 °F)
Flash point:	11 °C (51.8 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	455 °C (851 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
Density at 20 °C (68 °F):	0.79204 g/cm³ (6.60957 lbs/gal)
Relative density	Not determined.

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		(Contd. of page
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octand	l/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	<i>99.9</i> %	
VOC content:	99.90 %	
	791.2 g/l / 6.60 lb/gal	
Solids content:	0.1 %	
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:

ATE (Acute Toxicity Estimate)			
	LD50	100 mg/kg	
Dermal	LD50	300 mg/kg	
Inhalative	LC50/4h	3 mg/l	

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Irritant

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- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

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

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

<u>12 Ecological information</u>

- · 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
DOT, IMDG, IATA	UN1993	
· UN proper shipping name		
DOT	Flammable liquids, n.o.s. (Methanol)	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Methanol)	

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	in Methanol	

	(Contd. of page
· Transport hazard class(es)	
·DOT	
RAMMARE LOOP	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
· Class	3 Flammahla liquida
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
 Special precautions for user Hazard identification number (Kemler code): EMS Number: 	<i>F-E</i> , <u><i>S-E</i></u>
· Stowage Category	В
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
• Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
·IMDG	
· Limited quantities (LQ)	
· Excepted quantities (EQ)	Code: E2 Manimum act quantity per imper perhaping 20 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Decondation".	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 3, II
· UN "Model Regulation":	$\bigcup I 1995 \ \Gamma LAMINIADLE \ LIQUID, N.U.S. (MEI TANUL), 5, II$

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):

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

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· Section 313 (Specific toxic chemical listings):	
All ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
Methanol	ACTIVE
1,4-dihydroxybenzene	ACTIVE
· Hazardous Air Pollutants	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
CAS: 67-56-1 Methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
CAS: 123-31-9 1,4-dihydroxybenzene	Ađ

 \cdot NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: Methanol

4-dihydroxybenzene

Hazard statements
Highly flammable liquid and vapor.
Toxic if swallowed, in contact with skin or if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
Causes damage to the central nervous system and the visual organs.

Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.

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Trade name: Hydroquinone 1.0 gm/L in Methanol

((Contd. of page 10)
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
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 1.2, 05/31/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 09-16-2014. STN 05/31/2024 · 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 ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

- VOC: Volatile Organic Compounds (USA, EU) 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
- BEI: Biological Exposure Limit

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Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 3: Acute toxicity – Category 3 Sensitization - Skin 1: Skin sensitisation – Category 1 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1 • * Data compared to the previous version altered.