Printing date 05/22/2024

Reviewed on 05/22/2024

1 Identification · Product identifier · Trade name: Benzene Standard 20 ug/ml in Methanol • Article number: MOT146 · 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. Acute Toxicity - Dermal 3 H311 Toxic in contact with skin. Acute Toxicity - Inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS06 GHS08 · Signal word Danger (Contd. on page 2) US

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Hazard statements Methanol Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to the central nervous system and the visual organs. Preautionary statements 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 explosion-proof electrical/ventilating/lighting/equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not ead, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If yeadlowed: 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: Call a POISON CENTER or doctor/physician. Call a poison center/doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. 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 container in globesed. Store in a well-ventilated place. Keep container in globesed. Store in a well-ventilated place. Keep container in globesed. Massification system: NPTA ratings (scale 0 - 4) Mealth = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Mealth = 2 Fire = 3 Reactivity = 0 LIMIS-ratings (scale 0 - 4) Mealth = 2 Fire = 3 Reactivity = 0 LIMIS-ratings (scale 0 - 4) Mealth = 2 Fire = 3 Reactivity = 0 LIMIS-ratings (scale 0 - 4) Mealth = 2 Fire = 3 Reactivity = 0 LIMIS-ratings (s		(Contd. of page 1
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Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Results of PBT and vPvB assessment PBT: Not applicable.	REACTIVITY UT REACTIVITY = 0	
PBT: Not applicable.	Other hazards	
PBT: Not applicable.		

· Chemical characterization: Mixtures

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

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Trade name:	Benzene Standard
	20 ug/ml in Methanol

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99.998%

0.002%

· Table of Nonhazardous Ingredients

CAS: 71-43-2 Benzene

· Dangerous components:

CAS: 67-56-1 Methanol

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
- \cdot 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.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.
 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
 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.

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Trade name: Benzene Standard 20 ug/ml in Methanol

· Protective Action Criteria for Chemicals	(Contd. of page 3)
· PAC-1:	
CAS: 67-56-1 Methanol	530 ppm
CAS: 71-43-2 Benzene	52 ppm
· PAC-2:	
CAS: 67-56-1 Methanol	2,100 ppm
CAS: 71-43-2 Benzene	800 ppm
· PAC-3:	
CAS: 67-56-1 Methanol	7200* ppm
CAS: 71-43-2 Benzene	4000* ppm

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.
- \cdot Further information about storage conditions:
- Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- **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

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· Ing	
	redients with biological limit values:
CAS	S: 67-56-1 Methanol
BEI	15 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
Add	itional information: The lists that were valid during the creation were used as basis.
Exp	osure controls
Per	sonal protective equipment:
· Gen	eral protective and hygienic measures:
Kee	p away from foodstuffs, beverages and feed.
Imn	nediately remove all soiled and contaminated clothing.
	sh hands before breaks and at the end of work.
	e protective clothing separately.
	id contact with the eyes and skin.
	athing equipment:
	ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	piratory protective device that is independent of circulating air.
Pro	tection of hands:
Line Line Line Line Line Line Line Line	Protective gloves
The	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	e to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
	nical mixture.
Sele	ection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Mat	terial of gloves
	selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
	ies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance
the	glove material can not be calculated in advance and has therefore to be checked prior to the application.
	etration time of glove material
· Pen	
• Pen The	
• Pen The obse	exact break through time has to be found out by the manufacturer of the protective gloves and has to erved. protection:

· Body protection: Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:

Liquid

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	(Contd. of page
Color:	Clear water white
· Odor:	de l'alcool
	1
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-97.8 °C (-144 °F) 65 °C (149 °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):	0.79 g/cm ³ (6.59255 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	790.0 g/l / 6.59 lb/gal
Solids content:	0.0 %
• Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

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· 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)

OralLD50100 mg/kgDermalLD50300 mg/kgInhalativeLC50/4h3 mg/l

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

 \cdot Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 71-43-2 Benzene

· NTP (National Toxicology Program)

CAS: 71-43-2 Benzene

· OSHA-Ca (Occupational Safety & Health Administration)

CAS: 71-43-2 Benzene

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 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.

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• 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 IMDG, IATA	Flammable liquids, n.o.s. (Methanol) FLAMMABLE LIQUID, N.O.S. (Methanol)	
Transport hazard class(es)		
DOT		
P.AMMARE LOOD		
Class	3 Flammable liquids	
Label	3	
Class	3 Flammable liquids	
Label	3	
Packing group DOT, IMDG, IATA	II	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Hazard identification number (Kemler co EMS Number:		
EMS Number: Stowage Category	F-E, <u>S-E</u> B	
Transport in bulk according to Annex II	of	

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On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 3, II

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	;
No further relevant information available.	

· Sarc	l
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· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
All ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
Methanol	ACTIVE
Benzene	ACTIVE
· Hazardous Air Pollutants	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 71-43-2 Benzene	

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

CAS: 71-43-2 Benzene

· Chemicals known to cause developmental toxicity:

All ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 71-43-2 Benzene

· TLV (Threshold Limit Value)

CAS: 71-43-2 Benzene

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

CAS: 71-43-2 Benzene

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 10)

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Trade name: Benzene Standard 20 ug/ml in Methanol Reviewed on 05/22/2024

(Contd. of page 9) · Hazard pictograms GHS02 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to the central nervous system and the visual organs. · Precautionary statements 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. 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: Call a POISON CENTER or doctor/physician. Call a poison center/doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. 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, 05/22/2024: Reviewed SDS for accuracy. MH/STN

- *Revision 1.2, 05/22/2024: Reviewed SDS for accuracy. MH/ST 05/22/2024* • *Abbreviations and acronyms:*
- IMDG: International Maritime Code for Dangerous Goods

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Trade name: Benzene Standard 20 ug/ml in Methanol

	(Contd. of page 10)
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	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 3: Acute toxicity – Category 3	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1	
• * Data compared to the previous version altered.	
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