Printing date 05/28/2024

Reviewed on 05/28/2024

## **1** Identification

- · Product identifier
- · Trade name: Mobile Phase 80/20
- · Article number: RHO001
- 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

 $\cdot$  Classification of the substance or mixture

GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.

GHS08 Health hazard

Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.

GHS07

Acute Toxicity - Oral 4 Acute Toxicity - Dermal 4 Acute Toxicity - Inhalation 4 Sensitization - Skin 1 H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
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). • *Hazard pictograms* 



· Signal word Danger

• Hazard-determining components of labeling: Methanol

(Contd. on page 2)

<sup>-</sup> US

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Trade name: Mobile Phase 80/20

HEALTH       2         FIRE       1         FIRE       1         REACTIVITY       0         Reactivity = 0         Other hazards         Results of PBT and vPvB assessment         PBT: Not applicable.		(Contd. of page
Highly flammable liquid and vapor. Harmful if swallowed, in contact with skin or if inhaled. May cause an allergic skin reaction. Causes damage to the central nervous system and the visual organs. Precationary statements Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container rightly closed. Ground/bond container can dreceiving 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 explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precatuloary measures against static discharge. Do not breath elust/fume/gas/mist/vapors/spray. Wash thoroughly difer 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: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed: Call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash it before reuse. If case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of content/scontainer in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 1 Reactivity = 0 Other hazards Results of PBT and vPPB assessment BF: Not applicable.		
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Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 1 REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Classification system: NFPA ratings (scale $0 - 4$ ) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale $0 - 4$ ) HEALTH 2 FIRE 1 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	•	
NFPA ratings (scale $0 - 4$ )Image: State of the s		ns.
Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 1 REACTIVITY $\bigcirc$ Health = 2 Fire = 1 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 FIRE 1 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	NFPA ratings (scale 0 - 4)	
Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 FIRE 1 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	Health = 1	
1       0       Reactivity = 0         HMIS-ratings (scale 0 - 4)         HEALTH       2         FIRE       1         FIRE       1         Reactivity = 0         Other hazards         Results of PBT and vPvB assessment         PBT: Not applicable.		
HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 FIRE 1 Fire = 1 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
HEALTH       2         FIRE       1         FIRE       1         REACTIVITY       0         Reactivity = 0         Other hazards         Results of PBT and vPvB assessment         PBT: Not applicable.		
FIRE 1 Fire = 1 REACTIVITY O Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	HMIS-ratings (scale 0 - 4)	
FIRE 1 Fire = 1 REACTIVITY O Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	HEALTH 2 $H_{ealth} = 2$	
REACTIVITY Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
<b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable.	REACTIVIT U REACTIVITY - 0	
<b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable.	Other hazards	
PBT: Not applicable.		
	vPvB: Not applicable.	

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

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	(Contd. of page 2)		
· Dangerous components:			
CAS: 67-56-1 Methanol	17.486%		
CAS: 64-19-7 Acetic Acid, Glacial	1.175%		
· Table of Nonhazardous Ingredients			
CAS: 7732-18-5 Water	81.339%		

## **4** First-aid measures

### · Description of first aid measures

- General information:
- Immediately remove any clothing soiled by the product.

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.
- $\cdot \textit{After skin contact: Immediately wash with water and so ap and rinse thoroughly.}$
- After eye contact: Rinse opened eye for several minutes under running water.
- · 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:

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

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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· Protective Action Criteria for Chemicals	(Contd. of page 3)
· PAC-1:	
CAS: 67-56-1 Methanol	530 ppm
CAS: 64-19-7 Acetic Acid, Glacial	5 ppm
· PAC-2:	
CAS: 67-56-1 Methanol	2,100 ppm
CAS: 64-19-7 Acetic Acid, Glacial	35 ppm
• PAC-3:	
CAS: 67-56-1 Methanol	7200* ppm
CAS: 64-19-7 Acetic Acid, Glacial	250 ppm

## 7 Handling and storage

· Handling:

 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
 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.

 $\cdot$  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/m <sup>3</sup> , 200 ppm
REL Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
CAS: 64-19-7 Acetic Acid, Glacial
PEL Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
(Contd. on page 5)

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# Safety Data Sheet acc. to OSHA HCS

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REL	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm
	Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
ILV	Short-term value: 15 ppm Long-term value: 10 ppm
7	
-	redients with biological limit values:
	: 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.
	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	o away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work. Id contact with the eyes and skin.
	a contact with the eyes and skin. athing equipment:
	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us
	iratory protective device that is independent of circulating air.
Prot	ection of hands:
	Ω)
1/1	Protective gloves
The	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
	nical mixture.
	ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	erial of gloves
	selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
	es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove material can not be calculated in advance and has therefore to be checked prior to the application.
	etration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and has to b
obse	rved.
Eye	protection:
	Tightly sealed goggles
1	
Rad	y protection: Protective work clothing
БОЙ	y protection. I rotective work clothing

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<b>T</b> ( ) <b>1 1 1 1 1 1 1</b>	<b>7</b> • <b>7</b>
Information on basic physical and c General Information	hemical properties
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Vinegar
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
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):	0.89625 g/cm <sup>3</sup> (7.47921 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	<b>r</b> ): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	18.7 %
Water:	81.3 %
VOC content:	18.66 %
	167.2 g/l / 1.40 lb/gal
Solids content:	0.0 %
Other information	No further relevant information available.

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### **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)

Oral	LD50	572 mg/kg
Dermal	LD50	1,684 mg/kg
Inhalative	LC50/4h	17.2 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: Harmful

Irritant

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is 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 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.

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- · 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)
·	
Transport hazard class(es)	
DOT	
R.AMMABLE LOUD	
3	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
	<u> </u>
Packing group	77
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code)	
EMS Number:	F-E,S-E
Stowage Category	B

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• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· IMDG	
Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	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.
 Sara

· Sara	
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
CAS: 67-56-1 Methanol	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVI
Methanol	ACTIVI
Acetic Acid, Glacial	ACTIVI
Hazardous Air Pollutants	·
CAS: 67-56-1 Methanol	
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)	
None of the ingredients is listed.	
	(Contd. on page 1

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(Contd. of page 9) · 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 GHS02 GHS07 · Signal word Danger · Hazard-determining components of labeling: Methanol Acetic Acid, Glacial · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed, in contact with skin or if inhaled. May cause an allergic skin reaction. *Causes damage to the central nervous system and the visual organs.* · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. 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: Call a poison center/doctor if you feel unwell. 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. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. 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.

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	(Contd. of page 10)
· Contact:	
Date of Preparation / Last Revision:	
· Date of preparation / last revision	
Revision 1.2, 05/28/2024: Reviewed SDS for accuracy. MH/STN	
05/28/2024	
· 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	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1	
$\cdot$ * Data compared to the previous version altered.	US