Printing date 06/21/2024

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Reviewed on 06/21/2024

Identification	
Product identifier	
Trade name: Mobile Phase 80/20	
MEOH/H20	
Article number: SPE472	
Details of the supplier of the safety data sh	heet
Manufacturer/Supplier:	
Aqua Solutions, Inc. 6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA	
800-256-2586	
Information department:	
Technical Coordinator	
Sherman Nelson shermann@aquasolutions Technical Coordinator	s.org
Sherman Nelson shermann@aquasolutions	sorg
Emergency telephone number:	
Chemtrec: 800-424-9300	
Canutec: 613-996-6666	
Classification of the substance or mixture GHS02 Flame	
	H225 Highly flammable liquid and vapor.
GHS02 Flame	
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones	H225 Highly flammable liquid and vapor.
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed.
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin.
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed.
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin.
Flammable Liquids 2 Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin.
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Experimental	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. posure 1 H370 Causes damage to the central nervous system and
Flammable Liquids 2 Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Exp Label elements	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. posure 1 H370 Causes damage to the central nervous system and
Flammable Liquids 2 Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Exp Label elements GHS label elements The product is classifi	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. posure 1 H370 Causes damage to the central nervous system and visual organs.
Flammable Liquids 2 Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Exp Label elements GHS label elements The product is classifi	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. posure 1 H370 Causes damage to the central nervous system and visual organs.
Flammable Liquids 2 Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Exp Label elements GHS label elements The product is classifi	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. posure 1 H370 Causes damage to the central nervous system and visual organs.
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Expl Label elements GHS Iabel elements The product is classified Guide State Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 Specific Target Organ Toxicity - Single Expl Label elements GHS Up (Guide State) Guide State)	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. posure 1 H370 Causes damage to the central nervous system and visual organs.

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Mobile Phase 80/20 MEOH/H20

(Contd. of page 1) · 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 sprav 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· HMIS-ratings (scale 0 - 4) HEALTH Health = *2*2 FIRE 3 Fire = 3**REACTIVITY O** Reactivity = 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.

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(Contd. of page 2)

80.0%

20.0%

· Dangerous con	mponents:
CAS: 67-56-1	Methanol

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

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: Mobile Phase 80/20 MEOH/H20

(Contd. of page 3
530 ppm
2,100 ppm
7200* 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
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· Comp	oonents with limit values that require monitoring at the workplace:
CAS:	67-56-1 Methanol
PEL	Long-term value: 260 mg/m³, 200 ppm
	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc
· Ingree	dients with biological limit values:
CAS:	67-56-1 Methanol
1 7	15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)
I	(Contd. on page 5)
	US

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· pH-value:

• Change in condition Melting point/Melting range: Boiling point/Boiling range: Reviewed on 06/21/2024

Trade name: Mobile Phase 80/20 MEOH/H20

e valid during the creation were used as basis. ; feed. inated clothing. f work. use respiratory filter device. In case of intensive or longer exposure use ndent of circulating air.
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ndent of circulating air.
and resistant to the product/ the substance/ the preparation.
o the glove material can be given for the product/ the preparation/ the
ation of the penetration times, rates of diffusion and the degradation
anon of the penetration times, rates of affusion and the degradation
ot only depend on the material, but also on further marks of quality and As the product is a preparation of several substances, the resistance of advance and has therefore to be checked prior to the application.
cound out by the manufacturer of the protective gloves and has to be

Not determined.

Undetermined. 212 °C (413.6 °F)

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	(Contd. of page 5)
· 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/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	5.5 Vol % 44 Vol %
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	0.83 g/cm ³ (6.92635 lbs/gal) Not determined. Not determined. Not determined.
• Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents: Water: VOC content:	80.0 % 20.0 % 80.00 % 664.0 g/l / 5.54 lb/gal
Solids content:	0.0 %
· 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.

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(Contd. of page 6)

11 Toxicolo	1 Toxicological information		
	· Information on toxicological effects		
	· Acute toxicity:		
	· LD/LC50 values that are relevant for classification:		
ATE (Acu	ATE (Acute Toxicity Estimate)		
Oral	LD50	125 mg/kg	
Dermal	LD50	375 mg/kg	
Inhalative	LC50/4h	3.75 mg/l	
• Additional The produc Toxic • Carcinoge	No irrita on: No ser toxicolog ct shows th nic catego	ting effect. isitizing effects known. ical information: he following dangers according to internally approved calculation methods for preparations: pries	
		Agency for Research on Cancer)	
None of the	e ingredie	nts is listed.	
· NTP (Nati	onal Toxi	cology Program)	
None of the	e ingredie	nts is listed.	
· OSHA-Ca	(Occupat	ional Safety & Health Administration)	
None of the	e ingredie	nts 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:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- \cdot 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.

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· Uncleaned packagings:

• *Recommendation: Disposal must be made according to official regulations.*

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	1011220	
DOT, IMDG, IATA	UN1230	
UN proper shipping name DOT	Methanol solution	
IMDG, IATA	METHANOL solution	
Transport hazard class(es)		
DOT		
RAMMABLE LOUD		
3		
Class	3 Flammable liquids	
Label	3	
IMDG, IATA		
8		
Class	3 Flammable liquids	
Label	3 3	
Packing group		
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-D	
Stowage Category		
Stowage Code	SW2 Clear of living quarters.	
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: 1 L On cargo aircraft only: 60 L	

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ACTIVE

ACTIVE

· IMDG · Limited quantities (LQ)	11	
• 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 1230 METHANOL SOLUTION, 3, 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):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 67-56-1 Methanol

· TSCA (Toxic Substances Control Act):

Methanol

Water

• 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.

· 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). (Contd. on page 10)

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Trade name: Mobile Phase 80/20 МЕОН/Н20

Hazard pictograms	(Contd. of page
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/show	ver.
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 regulat Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	ions.

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 0.1, 06/21/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/21/2024 / 1.1

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Trade name: Mobile Phase 80/20 MEOH/H20

	(Contd. of page 10
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 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.	