Printing date 08/12/2024

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Reviewed on 08/12/2024

	le Phase Solution on Filtered)	
Article number: SCI069	)	
Details of the supplier of Manufacturer/Supplier Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586		AQUA
Information departmen Technical Coordinator Sherman Nelson sherma Emergency telephone n Chemtrec: 800-424-930 Canutec: 613-996-6666	nn@aquasolutions.org <b>umber:</b> 0	
Hazard(s) identifica	ntion	
Classification of the sul	bstance or mixture	
GHS02 Flame	2	
	e H225 Highly flammable liquid and	vapor.
	H225 Highly flammable liquid and	vapor.
Flammable Liquids 2	H225 Highly flammable liquid and	
Flammable Liquids 2	H225 Highly flammable liquid and posion	
Flammable Liquids 2	H225 Highly flammable liquid and operation psion H314 Causes severe skin burns and	
Flammable Liquids 2 GHS05 Corro Skin Corrosion 1B Eye Damage 1	H225 Highly flammable liquid and operation psion H314 Causes severe skin burns and	
Flammable Liquids 2 Flammable Liquids 2 GHS05 Corro Skin Corrosion 1B Eye Damage 1 GHS07 Acute Toxicity - Oral 4	H225 Highly flammable liquid and socion H314 Causes severe skin burns and H318 Causes serious eye damage.	
Flammable Liquids 2 Flammable Liquids 2 GHS05 Corro Skin Corrosion 1B Eye Damage 1 GHS07 Acute Toxicity - Oral 4	H225 Highly flammable liquid and v osion H314 Causes severe skin burns and H318 Causes serious eye damage. H302 Harmful if swallowed.	eye damage.

· Signal word Danger

• Hazard-determining components of labeling: Acetic Acid, Glacial

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<sup>-</sup> US

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### Trade name: Mix Mobile Phase Solution (0.2 Micron Filtered)

	(Contd. of page 1)
Acetonitrile, Reagent ACS Grade	
· Hazard statements	
Highly flammable liquid and vapor.	
Harmful if swallowed or in contact with skin.	
Causes severe skin burns and eye damage.	
May cause an allergic skin reaction.	
· 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 dusts or mists.	
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 swallowed: Rinse mouth. Do NOT induce vomiting.	,
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/sl	iower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	. 1 . 1
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pr	resent and easy to do.
Continue rinsing.	
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
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.	lations
Dispose of contents/container in accordance with local/regional/national/international regu	lullons.
· Classification system: · NFPA ratings (scale 0 - 4)	
NFFA raungs (scale 0 - 4)	
Health = 3	
Fire = 4	
$\frac{3}{0} Reactivity = 0$	
<ul> <li>▼</li> <li>▼</li> </ul>	
HMIS-ratings (scale 0 - 4)	
HEALTH 3 $Health = 3$	
FIRE 4 $Fire = 4$	
<b>REACTIVITY</b> Reactivity = $0$	
Other hazards	
Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
• <b>vPvB:</b> Not applicable.	
	US – (Contd. on page 3)
	(Conta. on page 3)

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#### Trade name: Mix Mobile Phase Solution (0.2 Micron Filtered)

(Contd. of page 2)

### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

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

#### · Dangerous components:

CAS: 64-19-7 A	cetic Acid, Glacial	34.572%
CAS: 75-05-8 A	cetonitrile, Reagent ACS Grade	28.16%
· Table of Nonhazardous Ingredients		
CAS: 7732-18-5	Water	26.743%
CAS: 127-09-3	Sodium Acetate Anhydrous	10.525%

## 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.

- · 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.* 

- Drink copious amounts of water and provide fresh air. 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

• *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.* 

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

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Trade name:	Mix	Mobile	<b>Phase Solution</b>
	(0.2	Micron	Filtered)

		(Contd. of page 3)		
Inform respective authorities in case of seepage into water course or sewage system.				
Dilute with plen				
	enter sewers/ surface or ground water.			
	naterial for containment and cleaning up:			
-	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).			
Use neutralizin				
	ninated material as waste according to section 13.			
Ensure adequa				
· Reference to or				
	or information on safe handling.			
	or information on personal protection equipment.			
	for disposal information.			
	on Criteria for Chemicals			
• PAC-1:				
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	13 ppm		
CAS: 127-09-3	Sodium Acetate Anhydrous	11 mg/m <sup>3</sup>		
• PAC-2:				
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	50 ppm		
CAS: 127-09-3	Sodium Acetate Anhydrous	120 mg/m <sup>3</sup>		
• PAC-3:				
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	150 ppm		
CAS: 127-09-3	Sodium Acetate Anhydrous	700 mg/m <sup>3</sup>		

## 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.
- $\cdot$  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.
   Specific end use(s) No further relevant information available.

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Trade name: Mix Mobile Phase Solution (0.2 Micron Filtered)

(Contd. of page 4)

### 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: 64-19-7 Acetic Acid, Glacial

PEL Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

- REL Short-term value: 37 mg/m<sup>3</sup>, 15 ppm Long-term value: 25 mg/m<sup>3</sup>, 10 ppm
- *TLV* Short-term value: 15 ppm Long-term value: 10 ppm

#### CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

- PEL Long-term value: 70 mg/m<sup>3</sup>, 40 ppm
- *REL Long-term value: 34 mg/m<sup>3</sup>, 20 ppm*
- TLV Long-term value: 20 ppm
- Skin, A4

• *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:

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.

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.

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(Contd. of page 5)

• Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties		
General Information			
Appearance: Form:	Liquid		
Color:	Clear		
Odor:	Organic		
Odor threshold:	Not determined.		
pH-value:	Not determined.		
Change in condition			
Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	36 °C (96.8 °F)		
Flash point:	5 °C (41 °F)		
Flammability (solid, gaseous):	Highly flammable.		
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:	4 Vol %		
Upper:	17 Vol %		
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)		
Density at 20 °C (68 °F):	0.94245 g/cm³ (7.86475 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	er): Not determined.		
Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
Solvent content:			
Organic solvents: 34.6 %			
Water:	26.7 %		

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Trade name:	Mix	Mobile	<b>Phase Solution</b>
	(0.2	Micron	Filtered)

		(Contd. of page 6)
VOC content:	34.57 %	
	325.8 g/l / 2.72 lb/gal	
Solids content:	10.5 %	
• 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:

ATE (Acute Toxicity Estimate)

Orui	LD30	1,770 mg/kg
		1,718 mg/kg
Inhalative	LC50/4h	39.1 mg/l

### · Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: Sensitization possible through skin contact.

• Additional toxicological information:

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

- Corrosive
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### 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.

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### · 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 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even 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.

#### **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	UN2924
UN proper shipping name DOT	Flammable liquids, corrosive, n.o.s. (acetonitrile, Acetic Ac
IMDG, IATA	Glacial ) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetonitri
	Acetic Acid, Glacial

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Trade name:	Mix	Mobile	Phase Solution
	(0.2	Micron	Filtered)

DOT Class 3 Flammable liquids Label 3, 8 IMDG Class 3, 8 IMDG Class 3, 8 IMDG Class 3, 8 IMDG Class 3, 8 IMTA Concernet of the second sec		(Contd. of page
Class       3 Flammable liquids         Label       3.8         INDG       Class         Class       3 Flammable liquids         Label       3.8         Class       3 Flammable liquids         Label       3/8         Label       3/8         Label       3/8         LATA       Image: Class         Class       3 Flammable liquids         Label       3/8         Label       3/8         Class       3 Flammable liquids         Label       3/8         Class       3 Flammable liquids         Label       3/8         Class       3 Flammable liquids         Label       3 (8)         Packing group       II         Dori, NDG, LATA       II         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code): 338       Stowage Code         Stowage Code       SU 2 Clear of living quarters.         Segregation Code       SU 2 Clear of living quarters.         Segregation Code       SU 2 Clear of living quarters.         Segregation Code       SU 2 Clear of l	Transport hazard class(es)	
Label       3, 8         IMDG       Impose         Class       3 Flammable liquids         Label       3/8         LATA       Impose         Vol       Impose         Class       3 Flammable liquids         Label       3/8         Class       3 Flammable liquids         Label       3 (8)         Packing group       Impose         DOT, IMDG, LATA       II         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code): 338       Stowage Category         Stowage Category       B         Stowage Code       SW2 Clear of living quarters.         Segregation Code       SG35 Stow "separated from" SGG1-acids         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not a	DOT	
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<i>Excepted quantities (EQ)</i> Code: E2 Maximum net quantity per inner packaging: 30 ml	Limited quantities (LQ)	
	Excepted quantities $(\widetilde{E}Q)$	
Maximum net quantity per outer packaging: 500 ml		
		Maximum net quantity per outer packaging: 500 ml

Printing date 08/12/2024

Reviewed on 08/12/2024

Trade name: Mix Mobile Phase Solution (0.2 Micron Filtered)

(Contd. of page 9)

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· UN "Model Regulation":

UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ACETONITRILE, ACETIC ACID, GLACIAL ), 3 (8), 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: 75-05-8 Acetonitrile, Reagent ACS Grade

• TSCA (Toxic Substances Control Act):

Acetic Acid, Glacial

Acetonitrile, Reagent ACS Grade Water

Sodium Acetate Anhydrous

· Hazardous Air Pollutants

CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

· 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:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

· TLV (Threshold Limit Value)

CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

· 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 11)

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Printing date 08/12/2024

Reviewed on 08/12/2024

Trade name: Mix Mobile Phase Solution (0.2 Micron Filtered)

(Contd. of page 10) · Hazard pictograms GHS02 GHS05 GHS07 · Signal word Danger · Hazard-determining components of labeling: Acetic Acid, Glacial Acetonitrile, Reagent ACS Grade · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. · 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 dusts or mists. 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 swallowed: Rinse mouth. Do NOT induce vomiting. 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 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. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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.
- · Contact:

Date of Preparation / Last Revision:

(Contd. on page 12)

Printing date 08/12/2024

Reviewed on 08/12/2024

### Trade name: Mix Mobile Phase Solution (0.2 Micron Filtered)

	(Contd. of page 11)
Date of preparation / last revision	
Revision 1.2, 08-12-2024: Reviewed SDS for accuracy. STN/GW	
08/12/2024 / 1 1	
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	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	
Sensitization - Skin 1: Skin sensitisation – Category 1	
* Data compared to the previous version altered.	
Dum computer to the previous version uncrea	LIC