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1 Identification

- · Product identifier
- Trade name: <u>HPLC Mobile Phase B</u>
- Article number: DOW734
- · 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

*

· Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS06 Skull and crossbones	
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
Specific Target Organ Toxicity - Single Exposure 2	H371 May cause damage to the central nervous system and the visual organs.
GHS07	the visual organs.
Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
• Label elements • GHS label elements The product is classified and lo	abeled according to the Globally Harmonized System (GHS). (Contd. on page 2)



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(Contd. of page 1) · Hazard pictograms GHS06 GHS07 GHS02 · Signal word Danger · Hazard-determining components of labeling: Acetonitrile, Reagent ACS Grade Methanol Acetic Acid, Glacial · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. Toxic in contact with skin or if inhaled. Causes serious eye irritation. May cause an allergic skin reaction. May cause 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. 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a poison center/doctor. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). If eye irritation persists: 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 = 4Reactivity = 0

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· HMIS-ratings (scale 0 - 4)



• 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:		
			94.521%
	CAS: 67-56-1		5.051%
	CAS: 64-19-7	Acetic Acid, Glacial	0.134%
	· Table of Nonhazardous Ingredients		
	CAS: 631-61-8	Ammonium Acetate	0.294%

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.

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. If symptoms persist, consult a doctor.
- · 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.

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- · 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-hinding material (sand diatomite acid hinders universal hi	ndors

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.

· Protective Action Criteria for Chemicals

• PAC-1:		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	13 ppm
CAS: 67-56-1	Methanol	530 ppm
CAS: 631-61-8	Ammonium Acetate	$3.8 mg/m^3$
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm
· PAC-2:		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	50 ppm
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 631-61-8	Ammonium Acetate	42 mg/m ³
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
· PAC-3:		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	150 ppm
CAS: 67-56-1	Methanol	7200* ppm
CAS: 631-61-8	Ammonium Acetate	250 mg/m ³
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.
- 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.*

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- · 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.
- 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 re	quire monitoring at the workplace:
--	------------------------------------

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

- PEL Long-term value: 70 mg/m³, 40 ppm
- REL Long-term value: 34 mg/m³, 20 ppm
- *TLV* Long-term value: 20 ppm Skin, A4

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; BEIc

CAS: 64-19-7 Acetic Acid, Glacial

- PEL Long-term value: 25 mg/m³, 10 ppm
- REL Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
- *TLV* Short-term value: 15 ppm Long-term value: 10 ppm

· 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.

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• Decomposition temperature:

• Ignition temperature:

Avoid contact with the eyes. Avoid contact with the eyes and skin. • Breathing equipment: In case of brief exposure or low pollu respiratory protective device that is in • Protection of hands:	(Contd. of page 5) ation use respiratory filter device. In case of intensive or longer exposure use adependent of circulating air.		
 Protection of hands: <i>Protective gloves</i> 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. Eve protection: Tightly sealed goggles Body protection: Protective work clothing 			
9 Physical and chemical propert	ies		
 Information on basic physical and cl General Information Appearance: Form: Color: Odor: Odor threshold: 			
· pH-value:	Not determined.		
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 36 °C (96.8 °F)		
· Flash point:	5 °C (41 °F)		
· Flammability (solid, gaseous):	Highly flammable.		
· Auto igniting:	455 °C (851 °F)		

Not determined.

Product is not selfigniting.

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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
· Vapor pressure at 50 °C (122 °F):	330 hPa (247.5 mm Hg)
· Density at 20 °C (68 °F):	0.78388 g/cm³ (6.54148 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:	5.2 %
VOC content:	5.19 %
	40.6 g/l / 0.34 lb/gal
Solids content:	0.3 %
• 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	417 mg/kg	
Dermal	LD50	973 mg/kg	
Inhalative	LC50/4h	9.7 mg/l	

· Primary irritant effect:

• on the skin: No irritant effect.

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• on the eye: 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

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 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

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.

14 Transport information

· UN-Number · DOT, IMDG, IATA

UN1993

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UN proper shipping name	(Contd. of pag
DOT IMDG, IATA	Flammable liquids, n.o.s. (acetonitrile, Methanol) FLAMMABLE LIQUID, N.O.S. (acetonitrile, Methanol)
Transport hazard class(es)	
DOT	
R AMMARE LOND	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category	В
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)	5L
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. (ACETONITRIL
	METHANOL), 3, II

15 Regulatory information

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

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t ion 315 (extremely hazardous substances): e of the ingredients is listed. ion 313 (Specific toxic chemical listings): : 75-05-8 [Acetonitrile, Reagent ACS Grade : 67-56-1 [Methanol // (Toxic Substances Control Act): romitm Acetate it Acid, Glacial ardous Air Pollutants : 75-05-8 [Acetonitrile, Reagent ACS Grade : 67-56-1 [Methanol bosition 65 micals known to cause cancer: e of the ingredients is listed. micals known to cause reproductive toxicity for females: e of the ingredients is listed. micals known to cause reproductive toxicity for males: e of the ingredients is listed. micals known to cause developmental toxicity: : 67-56-1 [Methanol cinogenic categories [(Environmental Protection Agency) : 75-05-8 [Acetonitrile, Reagent ACS Grade : 631-61-8 [Ammonium Acetate / (Threshold Limit Value) : 75-05-8 [Acetonitrile, Reagent ACS Grade : 75-05-8 [Acetonitrile, Re	
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IS02 GHS06 GHS07 GHS08	vstem (GHS)
al word Danger	
ard-determining components of labeling:	

Methanol Acetic Acid, Glacial

(Contd. on page 11)

Printing date 07/23/2024

Reviewed on 07/23/2024

Trade name: HPLC Mobile Phase B

	(Contd. of page 10)
· Hazard statements	
Highly flammable liquid and vapor.	
Harmful if swallowed.	
Toxic in contact with skin or if inhaled.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
May cause 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.	
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/show	er.
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 prese	nt and easy to do.
Continue rinsing.	
IF exposed or concerned: Call a poison center/doctor.	
Take off immediately all contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
Specific treatment (see on this label).	
If eye irritation persists: 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 regulati	ons.
· 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, 07-23-2024: Reviewed SDS for accuracy. STN/GW 07/23/2024 / 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)

(Contd. on page 12)

⁻ US

US

Safety Data Sheet acc. to OSHA HCS

Printing date 07/23/2024

Reviewed on 07/23/2024

Trade name: HPLC Mobile Phase B

	(Contd. of page 11)
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	
Acute Toxicity - Dermal 3: Acute toxicity – Category 3	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2	
* Data compared to the previous version altered.	
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