Printing date 11/27/2017

Reviewed on 11/27/2017

1 Identification

- · Product identifier
- Trade name: <u>Acetonitrile 5% v/v</u> <u>Methanol 5% v/v</u>
- Article number: ISP165
- 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 sherman@aquasolutions.org • Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

STOT SE 2 H371 May cause damage to organs.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



- · Signal word Warning
- Hazard-determining components of labeling: Methanol (Methyl Alcohol)
 Hazard statements May cause damage to organs.
 Precautionary statements Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed or concerned: Call a poison center/doctor. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.



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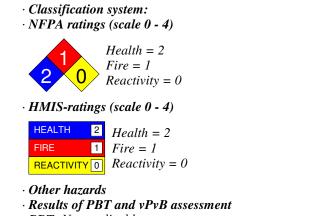
Trade name: Acetonitrile 5% v/v Methanol 5% v/v

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4.045%

3.9971%

91.9583%



· **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:

CAS: 67-56-1 Methanol (Methyl Alcohol)

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

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult 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: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

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Personal prece	uutions, protective equipment and emergency procedures Not required.	
<i>Environmenta</i>		
Dilute with ple		
	o enter sewers/ surface or ground water.	
Absorb with lig Dispose contar Reference to o	naterial for containment and cleaning up: quid-binding material (sand, diatomite, acid binders, universal binders, sawdust). ninated material as waste according to item 13. ther sections for information on safe handling.	
See Section 8 f See Section 13	for information on personal protection equipment. for disposal information. ion Criteria for Chemicals	
	on Cruciu jor Chemicuis	
PAC-1:		
PAC-1:	Methanol (Methyl Alcohol)	530 pp
PAC-1: CAS: 67-56-1		530 pp 13 ppn
PAC-1: CAS: 67-56-1 CAS: 75-05-8	Methanol (Methyl Alcohol)	
PAC-1: CAS: 67-56-1 CAS: 75-05-8 PAC-2:	Methanol (Methyl Alcohol)	
PAC-1: CAS: 67-56-1 CAS: 75-05-8 PAC-2: CAS: 67-56-1	Methanol (Methyl Alcohol) Acetonitrile, Reagent ACS Grade	13 ppn
PAC-1: CAS: 67-56-1 CAS: 75-05-8 PAC-2: CAS: 67-56-1 CAS: 75-05-8	Methanol (Methyl Alcohol) Acetonitrile, Reagent ACS Grade Methanol (Methyl Alcohol)	13 ppn 2,100 pp
PAC-1: CAS: 67-56-1 CAS: 75-05-8 PAC-2: CAS: 67-56-1 CAS: 75-05-8 PAC-3:	Methanol (Methyl Alcohol) Acetonitrile, Reagent ACS Grade Methanol (Methyl Alcohol)	13 ppn 2,100 pp

7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- 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 item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

- CAS: 67-56-1 Methanol (Methyl Alcohol)
- PEL Long-term value: 260 mg/m³, 200 ppm

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· Odor threshold:

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REL Short-term value: 325	mg/m³, 250 ppm	
Long-term value: 260	mg/m³, 200 ppm	
Skin		
TLV Short-term value: 328	mg/m ³ , 250 ppm	
Long-term value: 262		
Skin; BEI		
CAS: 75-05-8 Acetonitrile,	Reagent ACS Grade	
PEL Long-term value: 70 n	g/m³, 40 ppm	
REL Long-term value: 34 n	ug/m ³ , 20 ppm	
TLV Long-term value: 34 n	~ · · ·	
Skin	8, 2 0 pp	
Ingredients with biological	limit values:	
CAS: 67-56-1 Methanol (M		
BEI 15 mg/L		
LD50 Intraperitoneal:	urine	
<i>Time: end of shift</i>	ui ne	
LD50: Methanol (back	ground, nonspecific)	
	e lists that were valid during the creation were used as basis.	
Due to missing tests no rece chemical mixture. Selection of the glove mater Material of gloves The selection of the suitable varies from manufacturer to the glove material can not b Penetration time of glove m The exact break through ti observed. Eye protection: Goggles rece	e impermeable and resistant to the product/ the substance/ the prommendation to the glove material can be given for the product ial on consideration of the penetration times, rates of diffusion and gloves does not only depend on the material, but also on further manufacturer. As the product is a preparation of several substate e calculated in advance and has therefore to be checked prior to aterial me has to be found out by the manufacturer of the protective commended during refilling.	t/ the preparation/ th nd the degradation r marks of quality and inces, the resistance of the application.
Body protection: Protective	work clothing	
Physical and chemical	properties	
Information on basic physic	A A	
General Information	un una chemicai properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Organic	
01 1 1 1		

Not determined.

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		(Contd. of page
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	0.97846 g/cm³ (8.16525 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:	4.0 %	
Water:	92.0 %	
VOC content:	4.04 %	
	39.6 g/l / 0.33 lb/gl	
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.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- $\cdot \textit{Hazardous decomposition products: No dangerous decomposition products known.}$

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Trade name: Acetonitrile 5% v/v Methanol 5% v/v

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1 Toxicolo	gical inf	ormation			
• Informatio • Acute toxi		cological effects			
· LD/LC50 values that are relevant for classification:					
ATE (Acu	ATE (Acute Toxicity Estimate)				
Oral	LD50	>20,527-34,190 mg/kg (rat)			
Dermal	LD50	31,273 mg/kg (rabbit)			
Inhalative	LC50/4 h	253 mg/l			
CAS: 67-5	6-1 Metha	nol (Methyl Alcohol)			
Oral	LD50	>1,187-2,769 mg/kg (rat)			
Dermal	LD50	17,100 mg/kg (rabbit)			
Inhalative	LC50/4 h	128.2 mg/l (rat)			
· Additional	1: No irrita : No irritat on: No sen ! toxicologi ct shows th	int effect. Fing effect. Isitizing effects known. ical information: The following dangers according to internally approved calculation methods for preparations:			
· IARC (Inte	· IARC (International Agency for Research on Cancer)				
None of the	None of the ingredients is listed.				
· NTP (Nati	• NTP (National Toxicology Program)				
None of th	None of the ingredients is listed.				
· OSHA-Ca	· OSHA-Ca (Occupational Safety & Health Administration)				
None of th	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. • Results of PBT and vPvB assessment

- *PBT:* Not applicable.
- **vPvB**: Not applicable.
- Other adverse effects No further relevant information available.

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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. (Acetonitrile, Methanol) FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, METHANOL)
Transport hazard class(es)	
DOT	
RAMARIE LOUD	
Class	3 Flammable liquids
· Label	3
	3 Flammable liquids
Packing group	<u>^</u>
Packing group DOT, IMDG, IATA	3 Flammable liquids II
Packing group DOT, IMDG, IATA Environmental hazards:	II
Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant:	II No
Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user	II No Warning: Flammable liquids
 Class Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Danger code (Kemler): 	II No Warning: Flammable liquids 30
 Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Danger code (Kemler): EMS Number: 	II No Warning: Flammable liquids 30 F-E, <u>S-E</u>
Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Danger code (Kemler):	II No Warning: Flammable liquids 30 F-E, <u>S-E</u> B

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· Transport/Additional information:	
• DOT • Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (ACETONITRILE, METHANOL), 3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 67-56-1 Methanol (Methyl Alcohol) CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

· TSCA (Toxic Substances Control Act):

Methanol (Methyl Alcohol)

Acetonitrile, Reagent ACS Grade

Water

· 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 (Methyl Alcohol)

· Carcinogenic categories

· EPA (Environmental Protection Agency)

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

· TLV (Threshold Limit Value established by ACGIH)

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 9)

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Trade name: Acetonitrile 5% v/v Methanol 5% v/v

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Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed or concerned: Call a poison center/doctor.

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 Revision 0.0, 08-05-2015: Creation date for SDS. STN 11-27-2017: review SDS for accuracy. STN 11/27/2017 / -· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2