Printing date 09/29/2017

Reviewed on 09/29/2017

1 Identification

- · Product identifier
- · Trade name: Acetonitrile HPLC Grade
- Article number: A1520
- · CAS Number:
- 75-05-8 · EC number:
- 200-835-2
- · Index number: 608-001-00-3
- · 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



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS07

Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled. Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

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



· Signal word Danger · Hazard statements Highly flammable liquid and vapor.

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Trade name: Acetonitrile HPLC Grade

	(Contd. of page 1)
Harmful if swallowed, in contact with skin or if inhaled.	
Causes serious eye irritation.	
· 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.	
Avoid breathing 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: Call a POISON CENTER/doctor if you feel unwell.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wa	ter/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.	
Specific treatment (see on this label).	
Rinse mouth.	
If eye irritation persists: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international	l regulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 1	
$4 \qquad Fire = 4$	
$\frac{1}{1} \frac{1}{1} \frac{1}$	
· HMIS-ratings (scale 0 - 4)	
HEALTH 1 $Health = 1$	
FIRE 4 $Fire = 4$	
REACTIVITY $\begin{bmatrix} 0 \end{bmatrix}$ Reactivity = 0	
• Other hazards	
· Results of PBT and vPvB assessment	
· PBT: Not applicable.	
· vPvB: Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Substances	
· CAS No. Description	
75-05-8 Acetonitrile, Reagent ACS Grade	
· Identification number(s)	
• EC number: 200-835-2	

• Index number: 608-001-00-3

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Trade name: Acetonitrile HPLC Grade

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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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · 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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures 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 item 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: 13 ppm
- **PAC-2:** 50 ppm
- · PAC-3: 150 ppm

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Trade name: Acetonitrile HPLC Grade

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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.
- Troteet against electrostatic charges.
- \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.*

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: 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: 34 mg/m³, 20 ppm Skin

• 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

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Trade name: Acetonitrile HPLC Grade

· 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.

· 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.

· Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

Form:FluidColor:ColorlessOdor:AromaticOdor threshold:Not determined.pH-value:Not determined.• pH-value:Not determined.• Change in condition Melting point/Melting range:Undetermined.Boiling point/Melting range:Undetermined.• Flash point:5 °C (41 °F)• Flash point:5 °C (977 °F)• Flammability (solid, gaseous):Not applicable.• Ignition temperature:525 °C (977 °F)• Decomposition temperature:Not determined.• Auto igniting:Not determined.• Danger of explosion:Product is not explosive. However, formation of explosive air/vapor mixtures are possible.• Explosion limits: Lower:4.4 Vol % Upper:• Vapor pressure at 20 °C (68 °F):97 hPa (73 mm Hg)• Density at 20 °C (68 °F):0.7822 g/cm³ (6.527 lbs/gal)• Relative densityNot determined.• Vapor densityNot deter	General Information Appearance:	
Color:ColorlessOdor:AromaticOdor threshold:Not determined.• PH-value:Not determined.• PH-value:Not determined.• Change in condition Melting point/Boiling range:Undetermined.• Boiling point/Boiling range:Undetermined.• Flash point:5 °C (41 °F)• Flash point:5 °C (977 °F)• Pecomposition temperature:S25 °C (977 °F)• Decomposition temperature:Not determined.• Auto igniting:Not determined.• Auto igniting:Not determined.• Danger of explosion:Product is not explosive. However, formation of explosive air/vapo mixtures are possible.• Explosion limits: Lower:4.4 Vol % 		Fluid
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• Relative density Not determined. • Vapor density Not determined. • Evaporation rate Not determined. • Solubility in / Miscibility with	· Vapor pressure at 20 °C (68 °F):	97 hPa (73 mm Hg)
• Vapor density Not determined. • Evaporation rate Not determined. • Solubility in / Miscibility with		0.7822 g/cm ³ (6.527 lbs/gal)
Evaporation rate Not determined. Solubility in / Miscibility with		
· Solubility in / Miscibility with	· ·	
	• Evaporation rate	Not determined.
Water: Fully miscible.	Solubility in / Miscibility with	
	Water:	Fully miscible.

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Trade name: Acetonitrile HPLC Grade

- · Viscosity:
 - Dynamic at 20 °C (68 °F): Kinematic:

• Other information

0.39 mPas Not determined. 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:

Oral	LD50	2730 mg/kg (rat)
Dermal	LD50	1250 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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 (Assessment by list): 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**
- *Results of FBT and VFVB ass* • *PBT:* **Not applicable.**

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Trade name: Acetonitrile HPLC Grade

- · 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	UN1648	
UN proper shipping name		
DOT	Acetonitrile	
IMDG, IATA	ACETONITRILE	
Transport hazard class(es)		
DOT		
3		
Class	3 Flammable liquids	
Label	3	
IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group		
DOT, IMDG, IATA	II	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Danger code (Kemler):	33	
EMS Number:	F-E,S-D	
Stowage Category		
Stowage Code	SW2 Clear of living quarters.	
Transport in bulk according to Annex	II of	

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Trade name: Acetonitrile HPLC Grade

	(Contd. of page 7
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
Hazardous substance:	5000 lbs, 2270 kg
- 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 1648 ACETONITRILE, 3, II

15 Regulatory information

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

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- · TSCA (Toxic Substances Control Act): Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) CBD, D
- TLV (Threshold Limit Value established by ACGIH) A4
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



Signal word Danger
Hazard statements

Highly flammable liquid and vapor.
Harmful if swallowed, in contact with skin or if inhaled.
Causes serious eye irritation.

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.
Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

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Trade name: Acetonitrile HPLC Grade

	(Contd. of page 8)
	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: Call a POISON CENTER/doctor if you feel unwell.
	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.
	Specific treatment (see on this label).
	Rinse mouth.
	If eye irritation persists: Get medical advice/attention.
	Take off contaminated clothing and wash it before reuse.
	In case of fire: Use for extinction: CO2, powder or water spray.
	Store in a well-ventilated place. Keep cool.
	Dispose of contents/container in accordance with local/regional/national/international regulations.
	· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
_	
1	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
	09-29-2017: review SDS for accuracy. STN
	Creation date for SDS 01-24-2014
	09/29/2017 / -
	· 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
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	NFPA: National Fire Protection Association (USA)
	HMIS: Hazardous Materials Identification System (USA)
	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: Permissible Exposure Limit REL: Recommended Exposure Limit
	Flam. Liq. 2: Flammable liquids – Category 2
	Acute Tox. 4: Acute toxicity – Category 4
	Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
	US