Printing date 05/20/2024

Reviewed on 05/20/2024

1 Identification

- · Product identifier
- Trade name: <u>Potassium Phosphate 0.01 Molar</u> <u>Mobile Phase pH 2.30</u>
- · Article number: M-227
- 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



Specific Target Organ Toxicity - Single Exposure 2 H371 May cause damage to the central nervous system and the visual 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
- · Hazard statements
- May cause damage to the central nervous system and the visual 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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· 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 compo		
CAS: 67-56-1 Me	thanol	3.19%
· Table of Nonhazardous Ingredients		
CAS: 7732-18-5	Water	96.663%
CAS: 7778-77-0	Potassium Phosphate Monobasic	0.137%
CAS: 26628-22-8	Sodium Azide	0.01%

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.
- \cdot 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 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

• Environmental precau		
Dilute with plenty of w		
	sewers/ surface or ground water.	
	for containment and cleaning up:	
	ding material (sand, diatomite, acid binders, universal binders, sawdust).	
	material as waste according to section 13.	
Ensure adequate ventil		
• Reference to other sec		
÷ •	mation on safe handling.	
	mation on personal protection equipment.	
See Section 13 for disp		
· Protective Action Crite	eria for Chemicals	
· PAC-1:		
CAS: 67-56-1 Met	hanol	530 ppm
CAS: 7778-77-0 Pote	assium Phosphate Monobasic	9.6 mg/m ³
CAS: 26628-22-8 Sod	ium Azide	0.026 mg/m ³
· PAC-2:		
CAS: 67-56-1 Met	hanol	2,100 ppm
CAS: 7778-77-0 Pote	assium Phosphate Monobasic	110 mg/m ³
CAS: 26628-22-8 Sod	lium Azide	0.29 mg/m ³
· PAC-3:		
CAS: 67-56-1 Met	thanol	7200* ppm
CAS: 7778-77-0 Pote	assium Phosphate Monobasic	630 mg/m ³
CAS: 26628-22-8 Sod	ium Azide	$5.3 mg/m^{3}$

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 respiratory protective device available.
- · 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: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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-	osure controls/personal protection ional information about design of technical systems: No further data; see section 7.
	col parameters
	ponents with limit values that require monitoring at the workplace:
CAS:	67-56-1 Methanol
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
Ingre	dients with biological limit values:
CAS:	67-56-1 Methanol
	15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)
Addit	ional information: The lists that were valid during the creation were used as basis.
	sure controls nal protective equipment:
Keep	ral protective and hygienic measures: away from foodstuffs, beverages and feed.
	hands before breaks and at the end of work.
In ca respi	Thing equipment: se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u ratory protective device that is independent of circulating air.
The g Due i	ction of hands: love material has to be impermeable and resistant to the product/ the substance/ the preparation. To missing tests no recommendation to the glove material can be given for the product/ the preparation/ the ical mixture.
Selec	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves
The s varie the gi	election of the suitable gloves does not only depend on the material, but also on further marks of quality ar s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance ove material can not be calculated in advance and has therefore to be checked prior to the application. tration time of glove material
The e	exact break through time has to be found out by the manufacturer of the protective gloves and has to l ved.
Eye p	<i>rotection:</i> Goggles recommended during refilling. <i>protection:</i> Protective work clothing

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9 Physical and chemical property	ties
· Information on basic physical and c	hemical properties
· General Information	I I I
· Appearance:	
Form:	Liquid
Color:	Clear
· Odor:	Odorless
• Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
• Decomposition temperature:	Not determined.
· Ignition temperature:	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):	0.99248 g/cm³ (8.28225 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:	3.2 %
Water:	96.7 %
VOC content:	3.19 %
	31.7 g/l / 0.26 lb/gal
Solids content:	0.1 %
• Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

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· 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)

 Oral
 LD50
 3,135 mg/kg

 Dermal
 LD50
 9,404 mg/kg

 Inhalative
 LC50/4h
 94 mg/l

· Primary irritant effect:

• on the skin: No irritant effect.

- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

· 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 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.

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• 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.

Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA Class	Not regulated	
Packing group DOT, IMDG, IATA	Not regulated	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not regulated	

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):

CAS: 26628-22-8 Sodium Azide

· Section 313 (Specific toxic chemical listings):

CAS: 67-56-1 Methanol

CAS: 26628-22-8 Sodium Azide

· TSCA (Toxic Substances Control Act):

Water

Methanol

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ACTIVE

ACTIVE

- US

A4

Safety Data Sheet acc. to OSHA HCS

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Potassium Phosphate Monobasic	ACTIVE
Sodium Azide	ACTIVE
· 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)

CAS: 26628-22-8 Sodium Azide

· 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). • *Hazard pictograms*



· Signal word Warning

· Hazard-determining components of labeling:

Methanol

· Hazard statements

May cause damage to the central nervous system and the visual 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.
- 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.

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Department issuing SDS: Environment protection department.	
Contact:	
Date of Preparation / Last Revision:	
Date of preparation / last revision	
Revision 1.2, 05/20/2024: Reviewed SDS for accuracy. MH/STN	
Revision 0.0, 04-05-2022: Creation date for SDS. STN	
05/20/2024	
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	
Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2	
* Data compared to the previous version altered.	