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1 Identification · Product identifier · Trade name: Methanol Water 60:40 v/v Solution • Article number: ERL275 · 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 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 - Oral 3 H301 Toxic if swallowed. H311 Toxic in contact with skin. Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Specific Target Organ Toxicity - Single Exposure 1 H370 Causes 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 GHS02 GHS06 GHS08 · Signal word Danger (Contd. on page 2) US

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Trade name: Methanol Water 60:40 v/v Solution

Hazard-determining components of labeling: MethanolMathematic Hazard statementsHighly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to the central nervous system and the visual organs.Precautionary statements Keep away from heat/sparks/open flames/hot surfaces No smoking.	
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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.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower	r.
<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>	
IF exposed: Call a POISON CENTER or doctor/physician.	
<i>Call a poison center/doctor if you feel unwell.</i>	
Take off immediately all contaminated clothing and wash it before reuse.	
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 regulation	ns
Classification system:	113.
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 3	
2 <i>Q Reactivity</i> = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH *2 $Health = *2$	
FIRE 3 $Fire = 3$	
REACTIVITY \bigcirc Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	

· Chemical characterization: Mixtures

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

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54.281%

45.72%

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

• Dangerous components: CAS: 67-56-1 Methanol

4 First-aid measures

- · Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.
- 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. Then consult a doctor.
- *After swallowing:* Do not induce vomiting; immediately call for medical help.
- 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
- \cdot 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: 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 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.

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(Contd. of pag	• Protective Action C
	• PAC-1:
530 pp	CAS: 67-56-1 Meth
	• PAC-2:
2,100 pp	CAS: 67-56-1 Meth
	• PAC-3:
7200* pp	CAS: 67-56-1 Meth
7.	CAS: 67-56-1 Meth

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.
- · 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.
- \cdot 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	parameter	rs	

· Components with li CAS: 67-56-1 Meth	imit values that require monitoring at the workplace:	
	lue: 260 mg/m ³ , 200 ppm	
	lue: 325 mg/m ³ , 250 ppm lue: 260 mg/m ³ , 200 ppm	
TLV Short-term val Long-term val Skin; BEI		
· Ingredients with bio		
CAS: 67-56-1 Meth	zanol	
BEI 15 mg/L LD50 Intraper Time: end of sl LD50: Methan		
	· · · · · · · · · · · · · · · · · · ·	(Contd. on page

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· Odor threshold:

· pH-value:

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• Additional information: Th	e lists that were valid during the creation were used as basis.	(Contd. of page 4)
· Exposure controls		
· Personal protective equipm	ent:	
· General protective and hyg		
Keep away from foodstuffs,		
	ed and contaminated clothing.	
Wash hands before breaks a	nd at the end of work.	
Store protective clothing se	parately.	
Avoid contact with the eyes	and skin.	
• Breathing equipment:		_
	low pollution use respiratory filter device. In case of intensive o	r longer exposure use
	e that is independent of circulating air.	
· Protection of hands:		
1 ^m		
Protective glove.		
	e impermeable and resistant to the product/ the substance/ the pr	
	ommendation to the glove material can be given for the product	t/ the preparation/ the
chemical mixture.	ial on consideration of the non-struction times notes of diffusion a	ud the decuadation
• •	ial on consideration of the penetration times, rates of diffusion a	na the degradation
• Material of gloves	gloves does not only depend on the material, but also on further	r marks of quality and
	manufacturer. As the product is a preparation of several substa	
	e calculated in advance and has therefore to be checked prior to	
· Penetration time of glove n		ine apprication.
	me has to be found out by the manufacturer of the protective	gloves and has to be
observed.		0
• Eye protection:		
	,	
Tightly sealed go	ggles	
• Body protection: Protective	work clothing	
	0	
9 Physical and chemical	properties	
· Information on basic physi	cal and chemical properties	
· General Information		
· Appearance:		
Form:	Liquid	
Color:	Clear	
· Odor:	de l'alcool	

Not determined.

Not determined.

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Trade name: Methanol Water 60:40 v/v Solution

	(Contd. of page
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 64 °C (147.2 °F)
Flash point:	11 °C (51.8 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	455 °C (851 °F)
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: Upper:	5.5 Vol % 44 Vol %
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.8749 g/cm ³ (7.30104 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/wate	e r): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents: Water: VOC content:	54.3 % 45.7 % 54.28 % 474.9 g/l / 3.96 lb/gal
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.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicolo	gical inf	Formation	
• Informatio • Acute toxi		cological effects	
· LD/LC50	values tha	t are relevant for classification:	
ATE (Acu	te Toxicity	e Estimate)	
Oral	LD50	184 mg/kg	
Dermal	LD50	553 mg/kg	
Inhalative			
• Additional The produc Toxic	n: No irrita : No irrita on: No ser toxicolog ct shows th	ant effect. ting effect. isitizing effects known. ical information: he following dangers according to internally approved calculation methods for preparations:	
· Carcinoge	nic catego	ries	
· IARC (Int	ernational	Agency for Research on Cancer)	
None of th	None of the ingredients is listed.		
· NTP (Nati	ional Toxi	cology Program)	
None of th	None of the ingredients is listed.		
· OSHA-Ca	(Occupat	ional Safety & Health Administration)	

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

- DDT. Not applicable
- *PBT*: Not applicable.
- **vPvB:** Not applicable.
- \cdot 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.

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Trade name: Methanol Water 60:40 v/v Solution

(Contd. of page 7)

· 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	UN1230
UN proper shipping name	
DOT	Methanol solution
IMDG, IATA	METHANOL solution
Transport hazard class(es)	
DOT	
RAMAGE LOOD	
Class	3 Flammable liquids
Label	3
Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category Stowage Code	B SW2 Clear of living quarters.
-	5 w 2 Cieur of itving quarters.
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: 1 L On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L

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ACTIVE

ACTIVE

Safety Data Sheet acc. to OSHA HCS

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Trade name: Methanol Water 60:40 v/v Solution

	(Contd. of page 8)
· 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 1230 METHANOL SOLUTION, 3, 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: 67-56-1 Methanol

• TSCA (Toxic Substances Control Act): Methanol

Water

· 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)

None of the ingredients is listed.

· 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*



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Trade name:	Methanol	Water	60:40	v/v
	Solution			

(0) Signal word Danger	Contd. of page 9)
Hazard-determining components of labeling:	
Methanol	
Hazard statements	
Highly flammable liquid and vapor.	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes 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.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
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 exposed: Call a POISON CENTER or doctor/physician.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
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. 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 1.0, 08/04/2023: Reviewed SDS for Accuracy.. STN Revision 0.0, 08-27-2020: Creation date for SDS. STN 08/04/2023
- 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

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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 3: Acute toxicity – Category 3 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1 • * Data compared to the previous version altered.

US -