Printing date 05/12/2023

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Reviewed on 05/12/2023

nting date 05/12/2023	Reviewed on 05/12/20
Identification	
Product identifier	
Trade name: <u>Methyl Red 0.1% w/v</u> in Methanol	
Article number: 5854	
Details of the supplier of the safety data sh Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	heet
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	.org
Unand(a) identification	
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
\mathbf{A}	
GHS06 Skull and crossbones	
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
GHS08 Health hazard	
Specific Target Organ Toxicity - Single Exp	posure 1 H370 Causes damage to the central nervous system and t visual organs.
Label elements GHS label elements The product is classifi Hazard pictograms	ied and labeled according to the Globally Harmonized System (GHS
GHS02 GHS06 GHS08	
Signal word Danger	
Hazard-determining components of labeli	ng:
Methanol	0

(Contd. on page 2)

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Trade name: Methyl Red 0.1% w/v in Methanol

	(Contd. of page 1
· 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/sho	
	wer.
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 regula	itions.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 3	
2 0 Reactivity = 0	
IIMIS rating (and a 4)	
· HMIS-ratings (scale 0 - 4)	
$\frac{\text{HEALTH}}{3} Health = 3$	
FIRE 3 $Fire = 3$	
REACTIVITY 0 Reactivity = 0	
• Other hazards	
· Results of PBT and vPvB assessment	
• PBT: Not applicable.	
· vPvB: Not applicable.	
3 Composition/information on ingredients	

- \cdot Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 67-56-1 Methanol

99.874% (Contd. on page 3)

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Trade name: Methyl Red 0.1% w/v in Methanol

(Contd. of page 2)

0.126%

\cdot Table of Nonhazardous Ingredients

CAS: 493-52-7 Methyl Red

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
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 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: 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.
- · Protective Action Criteria for Chemicals

• PAC-1:

CAS: 67-56-1 Methanol

530 ppm (Contd. on page 4)

tu. on page 4)

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(Contd. of page 3)

2,100 ppm

7200* ppm

· PAC-2:

CAS: 67-56-1 Methanol

· PAC-3:

CAS: 67-56-1 Methanol

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.
- 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

· Com	ponents with limit values that require monitoring at the workplace:	
CAS	: 67-56-1 Methanol	
PEL	Long-term value: 260 mg/m ³ , 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; BEI	
· Ingr	edients with biological limit values:	
CAS	: 67-56-1 Methanol	
BEI	15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)	
· Addi	<i>tional information:</i> The lists that were valid during the creation were used as basis.	(Contd. on page 5)

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· Exposure controls

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(Contd. of page 4)

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. 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 \cdot **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.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

• Information on basic physical and • General Information • Appearance:	chemical properties	
Form:	Liquid	
Color:	Red	
· Odor:	Methanol	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	-97.8 °C (-144 °F)	
Boiling point/Boiling range:	64 °C (147.2 °F)	
· Flash point:	11 °C (51.8 °F)	

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	(Contd. of page 5
· 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/vapor mixtures are possible.
· Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
• Density at 20 °C (68 °F):	0.7917 g/cm ³ (6.60674 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.9 %
VOC content:	99.87 %
	790.7 g/l / 6.60 lb/gal
Solids content:	0.1 %
· 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.

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(Contd. of page 6)

11 Toxicolo	gical inf	formation	
• Informatio • Acute toxic		cological effects	
· LD/LC50	· LD/LC50 values that are relevant for classification:		
ATE (Acu	te Toxicity	v Estimate)	
Oral	LD50	100 mg/kg	
Dermal	LD50	300 mg/kg	
Inhalative	LC50/4h	3 mg/l	
• Additional The produc Toxic	1: No irrita : No irrita on: No ser toxicolog ct shows th	ant effect. ting effect. nsitizing effects known. ical information: he following dangers according to internally approved calculation methods for preparations:	
· Carcinoge		rnes I Agency for Research on Cancer)	
CAS: 493-			
· NTP (Nati	onal Toxi	cology Program)	
None of the	e ingredie	nts 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:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- \cdot **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.

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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· Uncleaned packagings:

*

• *Recommendation: Disposal must be made according to official regulations.*

DOTFlammable liquids, n.o.s. (Methanol)IMDG, IATAFLAMMABLE LIQUID, N.O.S. (Methanol)Transport hazard class(es)FLAMMABLE LIQUID, N.O.S. (Methanol)DOTImage: Class cla	UN proper shipping name DOT	UN1993	
IMDG, IATAFLAMMABLE LIQUID, N.O.S. (Methanol)Transport hazard class(es)DOTImage: Class (Class (Cla	DOT		
IMDG, IATAFLAMMABLE LIQUID, N.O.S. (Methanol)Transport hazard class(es)DOTImage: Class (Class (Cla			
Transport hazard class(es) DOT IMDG, IATA IMDG, IATA IMDG, IATA Improvementation Packing group DOT, IMDG, IATA II Environmental hazards: Marine pollutant: No Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 336 EMS Number: F-E.S-E Stowage Category B Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Quantity limitations	IMDG IATA		
DOT 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 Harmable liquids Hazard identification number (Kemler code): 336 EMS Number: F-E.S.E Stowage Category B 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		FLAMMABLE LIQUID, N.O.S. (Methanol)	
Class Label3 Flammable liquids 3IMDG, IATA3Import In Section 10003 Flammable liquids 3Class Label3 Flammable liquids 3Packing group DOT, IMDG, IATA11Environmental hazards: Marine pollutant:NoSpecial precautions for user Hazard identification number (Kemler code): 536Warning: Flammable liquids 136Special precautions for user Hazard identification number (Kemler code): 536NoSpecial precautions for user Hazard identification number (Kemler code): 536NoStowage Category BBTransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.Transport/Additional information: BOT Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 60 L	Transport hazard class(es)		
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Class Label3 Flammable liquids 3Packing group DOT, IMDG, IATAIIEnvironmental hazards: 	Label	3	
Label3Packing group DOT, IMDG, IATAIIEnvironmental hazards: Marine pollutant:NoSpecial precautions for user Hazard identification number (Kemler code):Warning: Flammable liquidsSpecial precautions for user Hazard identification number (Kemler code):NoSpecial precautions for user Hazard identification number (Kemler code):NoTransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.Transport/Additional information:Not applicable.DOT Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 60 L	IMDG, IATA		
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Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L	Transport/Additional information:		
Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L	DOT		
	Quantity limitations		
		On cargo aircraft only: 60 L	
	IMDG		
Limited quantities (LQ) 1L			
Excepted quantities (EQ) Code: E2	Excepted quantities (EQ)		
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml			

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· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 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	ACTIVE
Methyl Red	ACTIVE

• Hazardous Air Pollutants CAS: 67-56-1 Methanol

C/15. 07-50-1 101

· Proposition 65

 \cdot 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*



· Signal word Danger

• Hazard-determining components of labeling: Methanol

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Trade name: Methyl Red 0.1% w/v in Methanol

	(Contd. of page 9)
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 regulation	s.
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 05/12/2023, reviewed SDS for accuracy. STN Revision 1.0 01-10-2022, removed fluoride and sulfate from ingredients. STN 05/12/2023*
- 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 LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

(Contd. on page 11)

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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.