Printing date 05/15/2023 Reviewed on 05/15/2023

1 Identification

· Product identifier

· Trade name: Methyl Red Indicator

Modified

· Article number: CY060

· 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



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



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 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

2 GHS06

6 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: Methanol

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Modified

(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/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.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 3

REACTIVITY \bigcirc Reactivity = 0

- · 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 components:

CAS: 67-56-1 Methanol

99.748%

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Trade name: Methyl Red Indicator

Modified

(Contd. of page 2)

· Table of Nonhaza	·	Fg)
CAS: 63451-28-5	Methyl Red Hydrochloride	0.152%
CAS: 7220-79-3	Methylene Blue	0.101%

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
- · 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.

(Contd. on page 4)

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Trade name: Methyl Red Indicator Modified

· Protective Action Criteria for Chemicals

(Contd. of page 3)

7200* ppm

1 Tolective Action Criteria for Chemicals	
· PAC-1:	
CAS: 67-56-1 Methanol	530 ppm
· PAC-2:	
CAS: 67-56-1 Methanol	2,100 ppm
. 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.

 \cdot *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
- · Components 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/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

· Ingredients with biological limit values:

CAS: 67-56-1 Methanol

BEI 15 mg/L

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Methanol (background, nonspecific)

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Trade name: Methyl Red Indicator

Modified

(Contd. of page 4)

- · 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.

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

· 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

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

Color: Dark green-blue
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)

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Trade name: Methyl Red Indicator Modified

Flammability (solid, gaseous): Highly flammable. Auto igniting: 455 °C (851 °F) Decomposition temperature: Not determined. Ignition temperature: Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapa mixtures are possible. Explosion limits: Lower: Upper: 44 Vol % Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) Density at 20 °C (68 °F): Not determined. Not determined. Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not determined. Not determined. Not determined.		(Contd. of page
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: 5.5 Vol % Upper: 44 Vol % Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) Density at 20 °C (68 °F): 0.79172 g/cm³ (6.6069 lbs/gal) Not determined. Vapor density Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. Viscosity: Not determined. Not determined. Solvent content: Not determined. Solvent content: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Flash point:	11 °C (51.8 °F)
Decomposition temperature: Ignition temperature: Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapor mixtures are possible. Explosion limits: Lower: Upper: 44 Vol % Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) Pensity at 20 °C (68 °F): Not determined. Vapor density Not determined. Vapor density Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not determined. Solvent content: Organic solvents: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Flammability (solid, gaseous):	Highly flammable.
Ignition temperature: Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapo mixtures are possible. Explosion limits: Lower: Upper: 44 Vol % Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) Density at 20 °C (68 °F): 0.79172 g/cm³ (6.6069 lbs/gal) Relative density Not determined. Vapor density Not determined. Vapor density Not miscibility in / Miscibility with Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not determined. Not determined. Solvent content: Organic solvents: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Auto igniting:	455 °C (851 °F)
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Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) Density at 20 °C (68 °F): Not determined. Vapor density Not determined. Vapor density Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not determined. Solvent content: Organic solvents: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	Lower:	5.5 Vol %
Density at 20 °C (68 °F): 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/water): Not determined. Viscosity: Dynamic: Not determined. Kinematic: Not determined. Solvent content: Organic solvents: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	Upper:	44 Vol %
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Solubility in / Miscibility with Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not determined. Kinematic: Not determined. Solvent content: Organic solvents: 99.7 % YOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Vapor density	Not determined.
Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not determined. Kinematic: Not determined. Solvent content: Organic solvents: 99.7 % YOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Evaporation rate	Not determined.
Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not determined. Kinematic: Not determined. Solvent content: Organic solvents: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Solubility in / Miscibility with	
Viscosity:	Water:	Not miscible or difficult to mix.
Dynamic: Not determined. Kinematic: Not determined. Solvent content: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Partition coefficient (n-octanol/wate	e r): Not determined.
Kinematic: Not determined. Solvent content: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Viscosity:	
Solvent content: Organic solvents: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %		
Organic solvents: 99.7 % VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	Kinematic:	Not determined.
VOC content: 99.75 % 789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	· Solvent content:	
789.7 g/l / 6.59 lb/gal Solids content: 0.3 %	Organic solvents:	
Solids content: 0.3 %	VOC content:	
		789.7 g/l / 6.59 lb/gal
Other information No further relevant information available.	Solids content:	0.3 %
	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.

US

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Trade name: Methyl Red Indicator

Modified

(Contd. of page 6)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

OralLD50100 mg/kgDermalLD50301 mg/kgInhalativeLC50/4h3.01 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: Toxic

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7220-79-3 Methylene Blue

3

· 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.
- · 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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Modified

(Contd. of page 7)

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Methanol)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Methanol)
Transport hazard class(es)	
DOT	
PANMADE EQUID	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class Label	3 Flammable liquids
	<u> </u>
Packing group DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F- E , S - E
Stowage Category	В
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
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml

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Modified

(Contd. of page 8)

· 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

· 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







GHS02

GHS06

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: Methanol
- · Hazard statements

Highly flammable liquid and vapor.

(Contd. on page 10)

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Trade name: Methyl Red Indicator Modified

(Contd. of page 9)

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 05/15/2023, reviewed SDS for accuracy. STN

Revision 0.0,09-18-2015; creation date for SDS. BAB

Revision 1.0 01-10-2022, removed fluoride and sulfate from ingredients. STN 05/15/2023

· 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)

IMIC Harmaday Materials Hartiffer time Contact (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

(Contd. on page 11)

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Trade name: Methyl Red Indicator Modified

(Contd. of page 10)

PEL: Permissible Exposure Limit REL: Recommended 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.