Printing date 06/24/2024

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Reviewed on 06/24/2024

Product identifier		
Trade name: <u>m-Xyleno</u>		
ASTM D	<u>4046-14</u>	
Article number: 9860		
Details of the supplier Manufacturer/Supplier Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586		AQUA SOLUTIONS
Information department Technical Coordinator Sherman Nelson shermat Technical Coordinator Sherman Nelson shermat Emergency telephone m Chemtrec: 800-424-930 Canutec: 613-996-6666	ann@aquasolutions.org ann@aquasolutions.org <b>uumber:</b> 00	
Hazard(s) identifica	ation	
Classification of the su		
GHS02 Flam		
	e H226 Flammable liquid and vapor.	
GHS02 Flam Flammable Liquids 3	e H226 Flammable liquid and vapor.	nage.
GHS02 Flam Flammable Liquids 3 GHS05 Corro Skin Corrosion 1A	e H226 Flammable liquid and vapor. osion H314 Causes severe skin burns and eye day	nage.
GHS02 Flam Flammable Liquids 3 GHS05 Corro Skin Corrosion 1A Eye Damage 1 GHS07	e H226 Flammable liquid and vapor. osion H314 Causes severe skin burns and eye day	nage.
GHS02 Flam Flammable Liquids 3 GHS05 Corro Skin Corrosion 1A Eye Damage 1 GHS07 Acute Toxicity - Derman Sensitization - Skin 1 Label elements	e H226 Flammable liquid and vapor. osion H314 Causes severe skin burns and eye da H318 Causes serious eye damage.	-
GHS02 Flam Flammable Liquids 3 GHS05 Correct Skin Corrosion 1A Eye Damage 1 GHS07 Acute Toxicity - Dermal Sensitization - Skin 1 Label elements GHS label elements Th Hazard pictograms	e H226 Flammable liquid and vapor. osion H314 Causes severe skin burns and eye dat H318 Causes serious eye damage. 44 H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. e product is classified and labeled according to	-
GHS02 Flam Flammable Liquids 3 GHS05 Corro Skin Corrosion 1A Eye Damage 1 GHS07 Acute Toxicity - Dermal Sensitization - Skin 1 Label elements GHS label elements Th Hazard pictograms	e H226 Flammable liquid and vapor. osion H314 Causes severe skin burns and eye da H318 Causes serious eye damage. H318 Causes serious eye damage.	-

Printing date 06/24/2024

Trade name: m-Xylenol Solution ASTM D 4046-14 Reviewed on 06/24/2024

(Contd. of page 1) · Hazard-determining components of labeling: Acetic Acid, Glacial *m*-*Xylenol* (2,4-*Dimethylphenol*) · Hazard statements Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. · 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. Do not breathe dusts or mists. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. 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. Immediately call a poison center/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. 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 = 3Fire = 2Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 3 Health = 3FIRE 2 Fire = 2**REACTIVITY O** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable.

· **vPvB:** Not applicable.

(Contd. on page 3)

*Printing date 06/24/2024* 

Reviewed on 06/24/2024

Trade name: m-Xylenol Solution ASTM D 4046-14

(Contd. of page 2)

96.128%

3.872%

### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 105-67-9 m-Xylenol (2,4-Dimethylphenol)

### 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 and to be sure call for a 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: Drink copious amounts of water and provide fresh air. 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.
- · 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 product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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). Use neutralizing agent.

(Contd. on page 4)

<sup>-</sup> US

Printing date 06/24/2024

Reviewed on 06/24/2024

### Trade name: m-Xylenol Solution ASTM D 4046-14

Dispose contan Ensure adequa	ninated material as waste according to section 13.	(Contd. of page 3)
· Reference to of		
•	or information on safe handling.	
	or information on personal protection equipment.	
	for disposal information.	
	on Criteria for Chemicals	
· PAC-1:		
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm
CAS: 105-67-9	m-Xylenol (2,4-Dimethylphenol)	6.9 mg/m <sup>3</sup>
· PAC-2:	·	
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
CAS: 105-67-9	m-Xylenol (2,4-Dimethylphenol)	76 mg/m <sup>3</sup>
· PAC-3:		
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm
CAS: 105-67-9	m-Xylenol (2,4-Dimethylphenol)	460 mg/m <sup>3</sup>

## 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. 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.

## 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: 64-19-7 Acetic Acid, Glacial

- PEL Long-term value: 25 mg/m<sup>3</sup>, 10 ppm
- REL Short-term value: 37 mg/m<sup>3</sup>, 15 ppm Long-term value: 25 mg/m<sup>3</sup>, 10 ppm
- TLV Short-term value: 15 ppm
  - Long-term value: 10 ppm

(Contd. on page 5)

<sup>–</sup> US

Printing date 06/24/2024

Reviewed on 06/24/2024

Trade name: m-Xylenol Solution ASTM D 4046-14

(Contd. of page 4)

### CAS: 105-67-9 m-Xylenol (2,4-Dimethylphenol)

TLV Long-term value: 1\* ppm

\*inh. fraction+vapor; DSEN, A3

• 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  $\cdot$  *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

## 9 Physical and chemical properties

• Information on basic physical an	d chemical properties	
General Information		
· Appearance: Form:	Liquid	
Color:	Clear	
· Odor:	Vinegar	
· Odor threshold:	Not determined.	
· <i>pH-value at 20 °C (68 °F):</i>	2.5	
		(Contd. on page 6)

Printing date 06/24/2024

Reviewed on 06/24/2024

### Trade name: m-Xylenol Solution ASTM D 4046-14

	(Contd. of page 5)
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	16.6 °C (61.9 °F) 118 °C (244.4 °F)
· Flash point:	40 °C (104 °F)
· Flammability (solid, gaseous):	Flammable.
· Auto igniting:	485 °C (905 °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:	4 Vol %
Upper:	17 Vol %
· Vapor pressure at 20 °C (68 °F):	16 hPa (12 mm Hg)
· Density at 20 °C (68 °F):	1.0516 g/cm³ (8.7756 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	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	96.1 %
VOC content:	96.13 %
	1,010.9 g/l / 8.44 lb/gal
Solids content:	3.9 %
• 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.

(Contd. on page 7)

US

Printing date 06/24/2024

Reviewed on 06/24/2024

#### Trade name: m-Xylenol Solution ASTM D 4046-14

(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) LD50 82,640 mg/kg (rat) Oral Dermal LD50 1,059 mg/kg · Primary irritant effect: • on the skin: Strong caustic effect on skin and mucous membranes. • on the eye: Strong caustic effect. Strong irritant with the danger of severe eye injury. · Sensitization: Sensitization possible through skin contact. · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. · 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Danger to drinking water if even extremely small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 8)

US

Printing date 06/24/2024

Reviewed on 06/24/2024

Trade name: m-Xylenol Solution ASTM D 4046-14

(Contd. of page 7)

• 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.* 

· UN-Number · DOT, IMDG, IATA	UN2920
• UN proper shipping name • DOT	Corrosive liquids, flammable, n.o.s. (Acetic Acid, Glacial
· IMDG, IATA	) CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Acetic A Glacial )
· Transport hazard class(es)	
·DOT	
CORROSIVE 8 3	
· Class · Label	8 Corrosive substances 8, 3
·IMDG	
· Class	8 Corrosive substances
· Label	8/3
· IATA	
· Class	8 Corrosive substances
· Label	8 (3)
· Packing group · DOT, IMDG, IATA	II

Printing date 06/24/2024

Reviewed on 06/24/2024

Trade name: m-Xylenol Solution ASTM D 4046-14

	(Contd. of page
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
• Hazard identification number (Kemler co	ode): 86
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	E
Stowage Code	SW1 Protected from sources of heat.
	SW2 Clear of living 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: 30 L
· 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 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ACETI
	ACID. GLACIAL
	), 8 (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: 105-67-9 m-Xylenol (2,4-Dimethylphenol)	
TSCA (Toxic Substances Control Act):	
Acetic Acid, Glacial	ACTIVI
m-Xylenol (2,4-Dimethylphenol)	ACTIVI
Hazardous Air Pollutants	
None of the ingredients is listed.	
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.	
	(Contd. on page 1

Printing date 06/24/2024

Reviewed on 06/24/2024

Trade name: m-Xylenol Solution ASTM D 4046-14

(Contd. of page 9)

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · 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: Acetic Acid, Glacial *m*-*Xylenol* (2,4-*Dimethylphenol*) · Hazard statements Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. · 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. Do not breathe dusts or mists. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. 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. Immediately call a poison center/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. (Contd. on page 11)

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Printing date 06/24/2024

Reviewed on 06/24/2024

#### Trade name: m-Xylenol Solution ASTM D 4046-14

(Contd. of page 10)

In case of fire: Use CO2, powder or water spray to extinguish. 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: • Date of preparation / last revision Revision 0.1, 06/24/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 10-19-2020: Creation date for SDS. STN 06/24/2024 / 1.1 • 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 Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Dermal 4: Acute toxicity - Category 4 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1 • \* Data compared to the previous version altered.

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