US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/10/2021

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Reviewed on 05/10/2021

1 Identification • Product identifier • Trade name: m-Xylenol Solution <u>ASTM D406-14</u> • Article number: 9860 • Details of the supplier of the safety data sheet • Manufacturer/Supplier: Ayaus Solutions, Inc. 6913 Highway 225 • DEER PARK, TX 77536 USA Not Coordinator Sherman Nesson Sherman	Printing date 05/10/2021	Reviewed on 05/10/2021
 Trade name: <u>m-Xylenol Solution</u> <u>AstRiv D 4046-14</u> Article number: 9860 Details of the supplier of the safety data sheet Manufacturer/Supplier: Agua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77336 USA 800-256-2586 Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemitre: 800-424-9300 2 Hazard(s) identification Classification of the substance or mixture W GHS02 Flame Flam. Liq. 3 H226 Flammable liquid and vapor. W GHS05 Corrosion Skine Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Eye Dam. 1 H318 Causes seviene sever and eye damage. Signal vord Damger Signal word Damger Hazard-determining components of labeling: Accetic Acid m-Sylenol (2,4-Dimethylphenol) 	1 Identification	
ASTM D 4046-14• Article number: 9800• Details of the supplier of the safety data sheetManufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 7736 USA 800-256-2586• Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org E-mergency telephone number: Chemiter: 800-424-9300 Canutee: 613-996-66662 Hazard(s) identification Canutee: 613-996-66662 Hazard(s) identificationClassification of the substance or mixture \overbrace GHS02 FlameFlam. Liq. 3 H226 Flammable liquid and vapor. \overbrace GHS05 CorrosionSkin Corr. In H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.Cause Tox. 4 H312 Harmful in contact with skin.• Label elements • GHS02GHS07Acute Tox. 4 H312 Harmful in contact with skin.• Label elements • GHS02GHS07• Signal word Danger• Colspan= • GHS02• Signal word Danger• Signal word Danger	· Product identifier	
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Acetic Acid m-Xylenol (2,4-Dimethylphenol)	•	
	Acetic Acid	
	m-Xylenol (2,4-Dimethylphenol)	(Contd. on page 2

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Trade name: m-Xylenol Solution ASTM D 4046-14 Reviewed on 05/10/2021

(Contd. of page 1)
· Hazard statements
Flammable liquid and vapor.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
· 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.
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.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO2, powder or water spray.
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 = 3
Fire = 2
3 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH 3 Health = 3
FIRE 2 $Fire = 2$
REACTIVITY O <i>Reactivity</i> = 0
· Other hazards
· Results of PBT and vPvB assessment
• PBT: Not applicable.
· vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Mixtures

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 64-19-7 Acetic Acid

96.128% (Contd. on page 3)

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

(Contd. of page 2) 3.872%

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: 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.
- \cdot 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

	nutions, protective equipment and emergency procedures or protective device.	
-	e equipment. Keep unprotected persons away.	
	<i>precautions:</i> Do not allow to enter sewers/ surface or ground water.	
	naterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizin	g agent.	
Dispose contan	ninated material as waste according to item 13.	
Ensure adequa	te ventilation.	
Reference to o	ther sections	
See Section 7 f	or information on safe handling.	
See Section 8 f	or information on personal protection equipment.	
See Section 13	for disposal information.	
Protective Acti	on Criteria for Chemicals	
• PAC-1:		
CAS: 64-19-7	Acetic Acid	5 ppm
	m-Xylenol (2,4-Dimethylphenol)	6.9 mg/m

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		(Contd. of page 3)
· PAC-2:		
CAS: 64-19-7 A	cetic Acid	35 ppm
CAS: 105-67-9 n	n-Xylenol (2,4-Dimethylphenol)	76 mg/m ³
· PAC-3:		
CAS: 64-19-7 A	cetic Acid	250 ppm
CAS: 105-67-9 n	n-Xylenol (2,4-Dimethylphenol)	460 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 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 item 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 64-19-7 Acetic Acid

- PEL Long-term value: 25 mg/m³, 10 ppm
- REL Short-term value: 37 mg/m³, 15 ppm

Long-term value: 25 mg/m³, 10 ppm

TLV Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm

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

TLV Long-term value: 5* mg/m³, 1* ppm *inh. fraction+vapor; DSEN

• 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.

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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	chemical properties	
General Information Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Vinegar	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	2.5	
Change in condition		
Melting point/Melting range:	16.6 °C (61.9 °F)	
Boiling point/Boiling range:	118 °C (244.4 °F)	
Flash point:	40 °C (104 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	485 °C (905 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	

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	(Contd. of page
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo 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/cm ³ (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	e 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.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 82,640 mg/kg (rat)

Dermal LD50 1,059 mg/kg

CAS: 64-19-7 Acetic Acid

Dermal LD50 1,100 mg/kg (ATE)

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CAS: 10.	5-67-9	m-Xylenol (2,4-Dimethylphenol)
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
· Primary		
		rong caustic effect on skin and mucous membranes.
\cdot on the ey		
Strong co		
		with the danger of severe eye injury.
		No sensitizing effects known.
		cological information:
The prod	luct sh	ows the following dangers according to internally approved calculation methods for preparations:
Harmful		
Corrosiv	e	
Irritant		
Swallows and stom		ll lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus
· Carcinog	genic c	categories
· IARC (In	nterna	tional Agency for Research on Cancer)
None of t	the ing	redients is listed.
$\cdot NTP$ (Na	itional	Toxicology Program)
None of t	the ing	redients is listed.
· OSHA-C	Ca (Oce	cupational 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.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- \cdot 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.*

TTAT AT T	
UN-Number DOT, IMDG, IATA	UN2920
UN proper shipping name	
DOT IMDG, IATA	Corrosive liquids, flammable, n.o.s. (Acetic acid, glacial) CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ACETIC ACI GLACIAL)
Transport hazard class(es)	
DOT	
CORROSIVE 8 3	
Class Label	8 Corrosive substances 8, 3
IMDG	
Class Label	8 Corrosive substances 8/3
IATA Class Label	8 Corrosive substances 8 (3)
Packing group DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Stowage Code	Warning: Corrosive substances 86 F-A,S-B Acids E SW1 Protected from sources of heat. SW2 Clear of living quarters.

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• 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 ($\widetilde{E}Q$)	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. (ACETIC 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

- Suru	
· 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	ACTIVE
m-Xylenol (2,4-Dimethylphenol)	ACTIVE
· 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.	
· 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.	
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\cdot 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 *m*-*Xylenol* (2,4-*Dimethylphenol*) · Hazard statements Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. · 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. 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. Wash contaminated clothing before reuse. In case of fire: Use for extinction: CO2, powder or water spray. 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 05-07-2021: updated hazard information. STN

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Revision 0.0, 10-19-2020: Creation date for SDS. STN 05/10/2021 / 1.0 • 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 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 • * Data compared to the previous version altered.

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