Printing date 06/14/2024

Reviewed on 06/14/2024

1 Identification · Product identifier · Trade name: Xylenes, 99+% Residue Analysis Mixed Electronic • Article number: SPX360 • 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 3 H226 Flammable liquid and vapor. GHS08 Health hazard Carcinogenicity 2 H351 Suspected of causing cancer. Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure. GHS07 Acute Toxicity - Dermal 4 H312 Harmful in contact with skin. Acute Toxicity - Inhalation 4 H332 Harmful if inhaled. Skin Irritation 2 H315 Causes skin irritation. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 GHS08

US

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Signal word Warning	
Hazard-determining components of labeling:	
Xylene (Xylol)	
Ethylbenzene, Anhydrous, 99.8%	
Hazard statements	
Flammable liquid and vapor.	
Harmful in contact with skin or if inhaled.	
Causes skin irritation.	
Suspected of causing cancer.	
May cause damage to the hearing organs through prolonged or repeated exposure.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
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 dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water,	/shower.
<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>	
<i>IF exposed or concerned: Get medical advice/attention.</i>	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
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 reg	gulations
Classification system:	0
NFPA ratings (scale 0 - 4)	



Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 1 Health = 1Fire = 3FIRE 3 **REACTIVITY O** Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

(Contd. on page 3) US

Printing date 06/14/2024

Reviewed on 06/14/2024

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(Contd. of page 2)

95.515%

4.485%

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 1330-20-7 Xylene (Xylol)

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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.
- · After swallowing: If symptoms persist consult 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
- 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.

(Contd. on page 4)

⁻ US

Printing date 06/14/2024

Trade name: Xylenes, 99+% Residue Analysis Mixed Electronic

Reviewed on 06/14/2024

Analysis Mixed Electronic	
	(Contd. of page 3)
· 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: 1330-20-7 Xylene (Xylol)	130 ppm
CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%	33 ppm
• PAC-2:	
CAS: 1330-20-7 Xylene (Xylol)	920* ppm
CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%	1100* ppm
· PAC-3:	
CAS: 1330-20-7 Xylene (Xylol)	2500* ppm
CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%	1800* ppm

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: 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: 1330-20-7 Xylene (Xylol)

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

TLV Long-term value: 20 ppm

BEI, A4

(Contd. on page 5)

US ·

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CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8% PEL Long-term value: 435 mg/m ² , 100 ppm REL Short-term value: 435 mg/m ² , 100 ppm Long-term value: 435 mg/m ² , 100 ppm Uorg. EL A3 Ingredients with biological limit values: CAS: 1330-20-7 Xylene (Xylol) BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Sum of mandelic acids CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8% BEI 0.15 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50 Sum of mandelic acid and phenylglyoxylic acid (nonspecific) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal 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 twin. 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 respiratory protective device that is independent of circulating air. Protection of hands: Protective of the sub termenable 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 of the preparation. Due to missing tests no recommendation to the glove material can be given for the product the preparation. Due to missing tests no recommendation to the glove material can be diffusion and the degradation Material of gloves The selection of the subtable gloves does not only depend on the material, but also on further marks of quality varies from manufacturer to manufacturer. As the product is a preparation of several substances, the restance. Protection of hands: Difference and has to be inpermeable and resistant to the product the product the preparation. Due to missing tests no recommendation to the glove material can be given for the product the	a	(Contd. of page 4
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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 skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure respiratory protective device that is independent of circulating air. Protection of hands: 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/ chemical mixture. Selection of the suitable gloves does not only depend on the material, but also on further marks of quality varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance the glove material can not be calculated in advance and has therefore to be checked prior to the application. Protection ime of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be		
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(Contd. on page 6) US

(Contd. of page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Xylenes, 99+% Residue Analysis Mixed Electronic

• Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	Aromatic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	30 °C (86 °F)
Flammability (solid, gaseous):	Flammable.
Auto igniting:	500 °C (932 °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:	1.1 Vol %
Upper:	7 Vol %
Vapor pressure at 20 °C (68 °F):	6.7-8.2 hPa (5-6.2 mm Hg)
Density at 20 °C (68 °F):	0.86987 g/cm ³ (7.25907 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 20 °C (68 °F):	0.2 g/l
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade na	me: Xylenes,	99+% Residue
	Analysis	Mixed Electronic

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· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	100.00 %	
	869.9 g/l / 7.26 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.
- · 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)

Dermal LD50 1,152 mg/kg

Inhalative LC50/4h 11 mg/l

· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

- 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: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
CAS: 1330-20-7 Xylene (Xylol)	3
CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%	2B
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
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(Contd. on page 8)

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Xylenes, 99+% Residue Analysis Mixed Electronic

(Contd. of page 7)

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 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even 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

- · 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	UN1307	
· UN proper shipping name		
-DOT	Xylenes	
· IMDG, IATA	XYLENES	
Class	3 Flammable liquids	
· Label	3	

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Xylenes, 99+% Residue Analysis Mixed Electronic

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IMDG, IATA	
▼	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler	code): 30
EMS Number:	F- E , S - D
Stowage Category	В
Transport in bulk according to Annex I	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 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
UN "Model Regulation":	UN 1307 XYLENES, 3, III

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):	
All ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
Xylene (Xylol)	ACTIVE
Ethylbenzene, Anhydrous, 99.8%	ACTIVE
· Hazardous Air Pollutants	
All ingredients are listed.	
	(Contd. on page 10)

Printing date 06/14/2024

· Proposition 65

Reviewed on 06/14/2024

Trade name: Xylenes, 99+% Residue Analysis Mixed Electronic

(Contd. of page 9)

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· Chemicals known to cause cancer:

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

· 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.

 \cdot Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 1330-20-7 Xylene (Xylol)

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

· TLV (Threshold Limit Value)

CAS: 1330-20-7 Xylene (Xylol)

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

· 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 Warning

· Hazard-determining components of labeling: *Xylene* (*Xylol*) Ethylbenzene, Anhydrous, 99.8% · Hazard statements Flammable liquid and vapor. Harmful in contact with skin or if inhaled. Causes skin irritation. Suspected of causing cancer. May cause damage to the hearing organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

US

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Xylenes, 99+% Residue Analysis Mixed Electronic

(Contd. of page 10)

Wear protective gloves/protective clothing/eye protection/face protection.
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 or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
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, 06/14/2024: Reviewed SDS for accuracy. MH/STN 06/14/2024 / 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 BEI: Biological Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Dermal 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2 * Data compared to the previous version altered.