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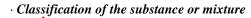
1 Identification

- · 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 sherman@aquasolutions.org Technical Coordinator Sherman Nelson sherman@aquasolutions.org
- · Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.

GHS07

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 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



· Signal word Warning

(Contd. on page 2)

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

	(Contd. of page 1
Hazard-determining components of labeling:	
Xylene (Xylol)	
Ethylbenzene, Anhydrous, 99.8%	
Hazard statements	
Flammable liquid and vapor.	
Harmful 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/showe	r.
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 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 regulation	ens.
Classification system:	
NFPA ratings (scale 0 - 4)	
$\frac{3}{1000} Health = 1$	
$\begin{array}{c} \text{Fire} = 3\\ \text{Reactivity} = 0 \end{array}$	
$\mathbf{V} = \mathbf{V}$	
HMIS-ratings (scale 0 - 4)	
HEALTH 1 $Health = 1$	
FIRE 3 $Fire = 3$	

 $\begin{array}{c} \mathbf{R} = \mathbf{S} \\ \mathbf{R} = \mathbf{R} \\ \mathbf{R} = \mathbf{R} \\ \mathbf{$

• Other hazards

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

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(Contd. of page 2)

95.515%

4.485%

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

• 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 item 13.

Ensure adequate ventilation.

• Reference to other sections

See Section 7 for information on safe handling.

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[·] Extinguishing media

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See Section 8 fo	r information on personal protection equipment.	(Contd. of page 3
See Section 13 f	for disposal information.	
	n Criteria for Chemicals	
• PAC-1:		
CAS: 1330-20-7		130 ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	33 ppm
• PAC-2:		
CAS: 1330-20-7	7 Xylene (Xylol)	920* ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	1100* ppm
• PAC-3:		
CAS: 1330-20-7	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 item 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 Short-term value: 651 mg/m³, 150 ppm
- Long-term value: 434 mg/m³, 100 ppm BEI

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

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

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REL	Short-term value: 545 mg/m³, 125 ppm
	Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 87 mg/m³, 20 ppm

BEI

· 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: Methylhippuric acids

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

BEI 0.7 g/g creatinine

LD50 Intraperitoneal: urine Time: end of shift at end of workweek

LD50: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

LD50 Intraperitoneal: end-exhaled air Time: not critical LD50: Ethyl benzene (semi-quantitative)

· 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.

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.

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• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Colorless
Odor: Odor threshold:	Aromatic 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):	Not applicable.
Ignition temperature:	500 °C (932 °F)
Decomposition temperature:	Not determined.
Auto igniting:	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/cm³ (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/wate	~
Viscosity:	· · · · · · · · · · · · · · · · · · ·
Dynamic:	Not determined.
Kinematic:	Not determined.

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		(Contd. of page
· 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 2,094 mg/kg (rabbit)

Inhalative LC50/4h 11 mg/l

CAS: 1330-20-7 Xylene (Xylol)

Dermal LD50 1,100 mg/kg (ATE)

Inhalative LC50/4h 11 mg/l (ATE)

· 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

	onal Agency for Research on Cancer)	
CAS: 1330-20-7	Xylene (Xylol)	3
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	2B
· NTP (National T	Toxicology Program)	
None of the ingre	edients is listed.	
		(Contd. on page 8)

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· 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 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		
$\cdot DOT$	Xylenes	
· IMDG, IATA	XYLENES	
• Transport hazard class(es) • DOT		
· Class	3 Flammable liquids	

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	(Contd. of page
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
	-
Packing group DOT, IMDG, IATA	111
Environmental hazards:	
Marine pollutant:	No
•	
Special precautions for user Hazard identification number (Kemler code)	Warning: Flammable liquids
EMS Number:	<i>F-E,S-D</i>
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: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	
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, 111

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)
- Ethylbenzene, Anhydrous, 99.8%
- · Hazardous Air Pollutants
- All ingredients are listed.

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ACTIVE

ACTIVE

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D

A4

AЗ

Proposition 65
 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 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.

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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 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:

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[·] Date of preparation / last revision Revision 0.1, 06-28-2017: Update DOT information. STN Revision 2.0, 01-12-2020: Updated sections 1, 2 and 15 to meet Fanns new requirements 04/22/2021 / -· 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 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Carc. 2: Carcinogenicity – Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2