Printing date 05/16/2024

Reviewed on 05/16/2024

1 Identification

- · Product identifier
- Trade name: <u>Nitrogen Standard 50.0 ppm</u> in Xylene (ASTM D5762)
- · Article number: LY339
- 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



GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.

GHS07

Acute Toxicity - Dermal 4H312 Harmful in contact with skin.Acute Toxicity - Inhalation 4H332 Harmful if inhaled.Skin Irritation 2H315 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

- Hazard-determining components of labeling: Xylene (Xylol)
- Hazard statements Flammable liquid and vapor. Harmful in contact with skin or if inhaled. Causes skin irritation.

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Trade name: Nitrogen Standard 50.0 ppm in Xylene (ASTM D5762)

Precautionary statements Keep away from head/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use enly non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dustfume/gas/mistr/apors/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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). 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. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) MEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Other hazards	l. of page 1
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- ·	
Dangerous components:	
CAS: 1330-20-7 Xylene (Xylol) 99	99.926%
Table of Nonhazardous Ingredients	
CAS: 260-94-6 Acridine, 97%	0.074%

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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.

- \cdot 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.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
• Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
\cdot 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.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 1330-20-7 Xylene (Xylol)	130 ppn
· PAC-2:	
CAS: 1330-20-7 Xylene (Xylol)	920* ppn
	(Contd. on page

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CAS: 1330-20-7 Xylene (Xylol)

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• PAC-3:

2500* ppm

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.*
- · 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

· 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

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

• General 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 skin. Avoid contact with the eyes and skin.

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- 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

Physical and chemical properties			
Information on basic physical and	chemical properties		
General Information Appearance:			
Form:	Liquid		
Color:	Clear		
Odor:	Characteristic		
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.		

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	(Cont	d. of page
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):	0.87086 g/cm ³ (7.26733 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	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	99.9 %	
VOC content:	99.93 %	
	870.2 g/l / 7.26 lb/gal	
Solids content:	0.7 %	
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 1,101 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:

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Trade name: Nitrogen Standard 50.0 ppm in Xylene (ASTM D5762)

Harmful

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

CAS: 1330-20-7 Xylene (Xylol)

· 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 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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, IMDG, IATA	UN1993	
· UN proper shipping name		
· DOT	Flammable liquids, n.o.s. (Xylene (Xylol))	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Xylene (Xylol))	

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Trade name: Nitrogen Standard 50.0 ppm in Xylene (ASTM D5762)

	(Contd. of page
· Transport hazard class(es)	
·DOT	
RAMMARE LOJO	
· Class	3 Flammable liquids
· Label	3
· 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
· ÊMS Number:	$F-E, S-\vec{E}$
· Stowage Category	A
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	c II of Not applicable.
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (XYLENE (XYLOL)), 3, II.

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
CAS: 1330-20-7 Xylene (Xylol)	
TSCA (Toxic Substances Control Act):	
Xylene (Xylol)	ACTIV
Acridine, 97%	ACTIV
Hazardous Air Pollutants	
CAS: 1330-20-7 Xylene (Xylol)	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
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 \cdot 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)

CAS: 1330-20-7 Xylene (Xylol)

• TLV (Threshold Limit Value)

CAS: 1330-20-7 Xylene (Xylol)

· 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)

• Hazard statements

Flammable liquid and vapor. Harmful in contact with skin or if inhaled. Causes skin irritation.

· 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.

Avoid breathing 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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade name: Nitrogen Standard 50.0 ppm in Xylene (ASTM D5762)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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 1.2, 05/16/2024: Reviewed SDS for accuracy. MH/STN 05/16/2024
 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
- * Data compared to the previous version altered.