Printing date 08/19/2024

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Reviewed on 08/19/2024

Identification	
Product identifier	
Trade name: <u>Nitrogen Std. 300 ppm</u> w/v as 'N' (N Source:Aciding	<u>e)</u>
Article number: ERL056	
Details of the supplier of the safety data sh Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	heet AQUA SOLUTIONS
Information department:	
Technical Coordinator	
Sherman Nelson shermann@aquasolutions Emergency telephone number:	s.org
Chemtrec: 800-424-9300	
Canutec: 613-996-6666	
<i>Hazard(s) identification</i> <i>Classification of the substance or mixture</i>	
Classification of the substance or mixture	
Classification of the substance or mixture	H226 Flammable liquid and vapor.
Classification of the substance or mixture	
Classification of the substance or mixture GHS02 Flame Flammable Liquids 3 GHS08 Health hazard	
Classification of the substance or mixture GHS02 Flame Flammable Liquids 3 GHS08 Health hazard	H226 Flammable liquid and vapor. Exposure 2 H373 May cause damage to organs through prolonged
Classification of the substance or mixture GHS02 Flame Flammable Liquids 3 GHS08 Health hazard Specific Target Organ Toxicity - Repeated	H226 Flammable liquid and vapor. Exposure 2 H373 May cause damage to organs through prolonged repeated exposure.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 3 GHS08 Health hazard Specific Target Organ Toxicity - Repeated Aspiration Hazard 1	H226 Flammable liquid and vapor. Exposure 2 H373 May cause damage to organs through prolonged repeated exposure.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 3 GHS08 Health hazard Specific Target Organ Toxicity - Repeated Aspiration Hazard 1 GHS07	H226 Flammable liquid and vapor. Exposure 2 H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 3 GHS08 Health hazard Specific Target Organ Toxicity - Repeated Aspiration Hazard 1 GHS07 Acute Toxicity - Dermal 4	H226 Flammable liquid and vapor. Exposure 2 H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin.

· Hazard pictograms



(Contd. on page 2)

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Trade name: Nitrogen Std. 300 ppm w/v as 'N' (N Source:Acidine)

· Signal word Danger	(Contd. of page 1)
· Hazard-determining components of labeling:	
Xylene (Xylol)	
· Hazard statements	
Flammable liquid and vapor.	
Harmful in contact with skin or if inhaled.	
Causes skin irritation.	
Causes serious eye irritation.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
· 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 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 swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show	er.
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 prese	ent and easy to do.
Continue rinsing.	·
Call a poison center/doctor if you feel unwell.	
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.	
If eye irritation persists: 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 regulati	ons.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2	
$\frac{3}{Fire = 3}$	
$\frac{2}{Reactivity} = 0$	
\sim Reactivity – 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 $Fire = 3$	
REACTIVITY Reactivity = 0	
· Other hazards	

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

(Contd. on page 3) US

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Trade name: Nitrogen Std. 300 ppm

w/v as 'N' (N Source:Acidine)

(Contd. of page 2)

99.559%

0.441%

• **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)

· Table of Nonhazardous Ingredients

CAS: 260-94-6 Acridine, 97%

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. If symptoms persist, consult a doctor.

• 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.

(Contd. on page 4)

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Trade name: Nitrogen Std. 300 ppm

w/v as 'N' (N Source:Acidine)

• <i>Methods and material for containment and cleaning up:</i> Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.	(Contd. of page 3)
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 ppm
· PAC-2:	
CAS: 1330-20-7 Xylene (Xylol)	920* ppm
· PAC-3:	
CAS: 1330-20-7 Xylene (Xylol)	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. 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)

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Reviewed on 08/19/2024

Trade name: Nitrogen Std. 300 ppm w/v as 'N' (N Source: Acidine)

(Contd. of page 4)

|--|

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 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 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.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

· Information on basic phy.	sical and chemical properties	
• General Information	* *	
· Appearance:		
Form:	Liquid	
Color:	Light yellow	
· Odor:	Xylene	

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Trade name: Nitrogen Std. 300 ppm w/v as 'N' (N Source:Acidine)

	(Contd. of page
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):	0.87052 g/cm³ (7.26449 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	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	99.6 %
VOC content:	99.56 %
	866.7 g/l / 7.23 lb/gal
Solids content:	0.4 %
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.

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Trade name: Nitrogen Std. 300 ppm

w/v as 'N' (N Source:Acidine)

• Hazardous decomposition products: No dangerous decomposition products known.

(Contd. of page 6)

3

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Dermal LD50 1,105 mg/kg

Inhalative LC50/4h 11 mg/l

· Primary irritant effect:

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

• on the eye: 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)

· 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.

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Trade name: Nitrogen Std. 300 ppm w/v as 'N' (N Source: Acidine)

(Contd. of page 7)

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	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Xylene (Xylol))
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Xylene (Xylol))
Transport hazard class(es)	
DOT	
3	
Class	2 Elammahla liquida
Label	3 Flammable liquids 3
	5
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	30
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	B
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
<u> </u>	On cargo aircraft only: 30 L

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Trade name:	Nitrog	en Std.	300 ppm
	w/v as	'N' (N	Source:Acidine)

	(Contd. of page 8)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (XYLENE (XYLOL)), 3, II

15 Regulatory information

*

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.	
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)	A

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Reviewed on 08/19/2024

Trade name: Nitrogen Std. 300 ppm w/v as 'N' (N Source:Acidine)

(Contd. of page 9) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: *Xylene (Xylol)* · Hazard statements *Flammable liquid and vapor.* Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · 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 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 swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). 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. Call a poison center/doctor if you feel unwell. 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. If eye irritation persists: 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:

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Trade name: Nitrogen Std. 300 ppm w/v as 'N' (N Source:Acidine)

	(Contd. of page 10)
Date of Preparation / Last Revision:	
• Date of preparation / last revision	
Revision 1.2, 08-19-2024: Reviewed SDS for accuracy. STN/GW	
08/19/2024 / 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	
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	
Eve Irritation 2A: Serious eve damage/eve irritation – Category 2A	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2	
Aspiration Hazard 1: Aspiration hazard – Category 1	
* Data compared to the previous version altered.	
Dua comparea to the previous version ancrea.	10
	US