Printing date 05/16/2024

Reviewed on 05/16/2024

Identification	
Product identifier	
Trade name: <u>Nitrogen Standard 25.0 ug/ul</u> in Isooctane	
Article number: LY069	
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	AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS08 Health hazard	
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
GHS07	
Skin Irritation 2 Specific Target Organ Toxicity - Single Exposu	H315 Causes skin irritation. re 3 H336 May cause drowsiness or dizziness.
Label elements GHS label elements The product is classified an Hazard pictograms	nd labeled according to the Globally Harmonized System (GHS)
GHS02 GHS07 GHS08	
Signal word Danger	
Hazard-determining components of labeling: 2,2,4-Trimethylpentane (Iso-Octane) Hazard statements	
Hazara statements Highly flammable liquid and vapor.	

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Trade name: Nitrogen Standard 25.0 ug/ul in Isooctane

Tauses skin irritation. Tay cause drowsiness or dizziness. Tay be fatal if swallowed and enters airways. recautionary statements 'eep away from heat/sparks/open flames/hot surfaces No smoking. 'round/bond container and receiving equipment. 'se explosion-proof electrical/ventilating/lighting/equipment. 'se only non-sparking tools. ake precautionary measures against static discharge. void breathing dust/fume/gas/mist/vapors/spray 'ash thoroughly after handling. 'se only outdoors or in a well-ventilated area. 'ear protective gloves/protective clothing/eye protection/face protection. 'swallowed: Immediately call a poison center/doctor. pecific treatment (see on this label). 'o NOT induce vomiting. 'on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower F INHALED: Remove person to fresh air and keep comfortable for breathing. 'all a poison center/doctor if you feel unwell. 'all a poison center/doctor if you feel unwell. 'all a poison center/doctor if you feel a contaminated clothing.	
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ake off contaminated clothing and wash it before reuse.	
skin irritation occurs: Get medical advice/attention.	
n case of fire: Use CO2, powder or water spray to extinguish.	
tore in a well-ventilated place. Keep container tightly closed.	
tore in a well-ventilated place. Keep cool.	
tore locked up.	
vispose of contents/container in accordance with local/regional/national/international regulation	<i>15</i> .
lassification system:	
FPÅ ratings (scale 0 - 4)	
Health = 1	
Fire = 3	
Reactivity = 0	
MIS-ratings (scale 0 - 4)	
Ineditit = 2	
FIRE 3 Fire = 3	
REACTIVITY O Reactivity = 0	
ther hazards	
esults of PBT and vPvB assessment	
BT : Not applicable.	
PvB: Not applicable.	
· · · · · · · · · · · · · · · · · · ·	

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

(Contd. on page 3)

99.98%

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(Contd. of page 2)

0.021%

· Table of Nonhazardous Ingredients

CAS: 110-86-1 Pyridine

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- 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.
- · 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
- \cdot 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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

	utions, protective equipment and emergency procedures	
	equipment. Keep unprotected persons away.	
 Environmental 		
	oduct to reach sewage system or any water course.	
	ve authorities in case of seepage into water course or sewage system.	
	enter sewers/ surface or ground water.	
• Methods and m	aterial for containment and cleaning up:	
Absorb with liq	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose contam	inated material as waste according to section 13.	
Ensure adequat	e ventilation.	
· Reference to ot	her sections	
See Section 7 fo	r information on safe handling.	
See Section 8 fo	r information on personal protection equipment.	
See Section 13	for disposal information.	
· Protective Action	on Criteria for Chemicals	
· PAC-1:		
CAS: 540-84-1	2,2,4-Trimethylpentane (Iso-Octane)	230 ppm
CAS: 110-86-1	Pyridine	3 ppm
· PAC-2:		
CAS: 540-84-1	2,2,4-Trimethylpentane (Iso-Octane)	830 ppm
		(Contd. on page 4)

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Trade name: Nitrogen Standard 25.0 ug/ul in Isooctane

CAS: 110-86-1 Pyridine	(Contd. of page 3) 19 ppm
· PAC-3:	
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	5000* ppm
CAS: 110-86-1 Pyridine	3600* 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- *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: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

- TLV Long-term value: 300 ppm
- 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 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

(Contd. on page 5)

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(Contd. of page 4)

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 physical and c General Information	hemical properties
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Organic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-107.4 °C (-161.3 °F)
Boiling point/Boiling range:	98 °C (208.4 °F)
Flash point:	-12 °C (10.4 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	410 °C (770 °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:	6 Vol %
Vapor pressure at 20 °C (68 °F):	15 hPa (11.3 mm Hg)
Density at 20 °C (68 °F):	0.69009 g/cm ³ (5.7588 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.

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Trade name: Nitrogen Standard 25.0 ug/ul in Isooctane

		(Contd. of page
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/v	vater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	99.98 %	
	689.9 g/l / 5.76 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:
- Primary irritant effect:
- \cdot 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: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 110-86-1 Pyridine

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Contd. on page 7)

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Trade name: Nitrogen Standard 25.0 ug/ul in Isooctane

(Contd. of page 6)

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	UN1993
· UN proper shipping name	
·DOT	Flammable liquids, n.o.s. (Octanes)
·IMDG	FLAMMABLE LIQUID, N.O.S. (Octanes), MARINE POLLUTAN
·IATA	FLAMMABLE LIQUID, N.O.S. (Octanes)
DOT	
· DOT	3 Flammable liquids

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Trade name:	Nitrogen St	Standard	25.0	ug/ul
	in Isooctan	ıe		

	(Contd. of pag
·IMDG	
· Class	3 Flammable liquids
· Label	3
·IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: Octan
• Marine pollutant:	Yes
	Symbol (fish and tree)
 Special precautions for user Hazard identification number (Kemler code): 	Warning: Flammable liquids
• Hazara menujication number (Kemter coae): • EMS Number:	<i>F-E,S-E</i>
· 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: 5 L
	On cargo aircraft only: 60 L
· IMDG	
\cdot Limited quantities (LQ)	1L
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Deculation"	UN 1993 FLAMMABLE LIQUID, N.O.S. (OCTANES), 3, II
· UN "Model Regulation":	UN 1775 FLAMIMADLE LIQUID, N.O.S. (OCIANES), 5, II

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.

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Trade name: Nitrogen Standard 25.0 ug/ul in Isooctane

	(Contd. of page
· Section 313 (Specific toxic chemical listings):	
CAS: 110-86-1 Pyridine	
· TSCA (Toxic Substances Control Act):	
2,2,4-Trimethylpentane (Iso-Octane)	ACTIVI
Pyridine	ACTIVI
· Hazardous Air Pollutants	· · · · · ·
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 110-86-1 Pyridine	
· 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.	
None of the ingredients is listed. • Chemicals known to cause developmental toxicity:	

· EPA (Environmental Protection Agency)

CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

· TLV (Threshold Limit Value)

CAS: 110-86-1 Pyridine

· 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: 2,2,4-Trimethylpentane (Iso-Octane)
Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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

(Contd. on page 10)

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Trade name: Nitrogen Standard 25.0 ug/ul in Isooctane

(Contd. of page 9) 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. Call a poison center/doctor 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 container tightly closed. 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 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)	
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	
Flammable Liquids 2: Flammable liquids – Category 2	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
Aspiration Hazard 1: Aspiration hazard – Category 1	
\cdot * Data compared to the previous version altered.	US