Printing date 07/24/2024

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Reviewed on 07/24/2024

mung aale 0772472024	Keviewed on 077247202
Identification	
Product identifier	
• Trade name: <u>Nitrogen Standard</u> 150.0 ug/ml in Toluene	
Article number: AM061	
<ul> <li>Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Aqua Solutions, Inc.</li> <li>6913 Highway 225</li> <li>DEER PARK, TX 77536</li> <li>USA</li> <li>800-256-2586</li> </ul>	AQUA SOLUTIONS
• Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org • Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
P. Hazard(s) identification	
Classification of the substance or mixture	
Flammable Liquids 2 GHS08 Health hazard	H225 Highly flammable liquid and vapor.
Carcinogenicity 2 Toxic to Reproduction 2	H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child.
*	H373 May cause damage to organs through prolonged o repeated exposure.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
GHS07	
Skin Irritation 2	H315 Causes skin irritation.
	H336 May cause drowsiness or dizziness.
• Label elements • GHS label elements The product is classified and labe • Hazard pictograms	led according to the Globally Harmonized System (GHS).
GHS02 GHS07 GHS08	
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**REACTIVITY O** Reactivity = 0

Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

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Teard-determining components of labeling:         Followe         Corbarole, 96%         Mard statements         Tighly flommable liquid and vapor.         Saxses skin irritation.         Suspected of causing cancer.         Suspected of damaging ferritity or the unborn child.         May cause damaging for ritity or the unborn child.         May cause damaging for ritity or the unborn child.         May be fatal if swallowed and enters airways.         Precutionary statements         Datain special instructions before use.         Do not handle until all safety precautions have been read and understood.         Keep away from heat/sparks/open flames/ht surfaces No smoking.         Toound/bond container and receiving equipment.         Use only non-sparking tools.         Toke precautionary measures against static discharge.         Do not breathe dus/fume/gas/misi/vapors/spray.         Wash thoroughly after handling.         Use only non-sparking tools.         Tear concerned: Get medical divice/attention.         Synallowed: Immediately call a poison center/doctor.         Synallowed: Immediately call a poison center/doctor.         Synallowed: Vonting.         To NAN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         F INMALED: Remove person to fresh air and keep com	Signal word Danger	(Contd. of page
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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 sexposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Get medical advice/attention 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. 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. Classification system: WFPA ratings (scale 0 - 4) HEALTH 1 Health = 1	Use only outdoors or in a well-ventilated area.	
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#### Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

(Contd. of page 2)

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

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

### · Dangerous components:

CAS: 108-88-3	Toluene	99.791%
CAS: 86-74-8	Carbazole, 96%	0.209%

### 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: 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.

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#### Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

Ensure adequat	e ventilation.	(Contd. of page 3)
· Reference to ot	her sections	
See Section 7 fc	r information on safe handling.	
	r information on personal protection equipment.	
	for disposal information.	
· Protective Action	on Criteria for Chemicals	
· PAC-1:		
CAS: 108-88-3	Toluene	67 ppm
CAS: 86-74-8	Carbazole, 96%	0.66 mg/m <sup>3</sup>
· PAC-2:		
CAS: 108-88-3	Toluene	560 ppm
CAS: 86-74-8	Carbazole, 96%	$7.2 mg/m^3$
· PAC-3:		
CAS: 108-88-3	Toluene	3700* ppm
CAS: 86-74-8	Carbazole, 96%	43 mg/m <sup>3</sup>

# 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: 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:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

### CAS: 108-88-3 Toluene

PEL Long-term value: 200 ppm Ceiling limit value: 300; 500\* ppm \*10-min peak per 8-hr shift

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US

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# Safety Data Sheet acc. to OSHA HCS

Printing date 07/24/2024

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### Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

REL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm Long-term value: 375 mg/m<sup>3</sup>, 100 ppm TLV Long-term value: 20 ppm

### · Ingredients with biological limit values:

### CAS: 108-88-3 Toluene

BEI, OTO, A4

BEI 0.02 mg/L

LD50 Intraperitoneal: blood Time: prior to last shift of workweek LD50: Toluene

0.03 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Toluene

0.3 mg/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: o-Cresol with hydrolysis (background)

• 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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# Safety Data Sheet acc. to OSHA HCS

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Reviewed on 07/24/2024

# Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

• Eye protection:



\*

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and cl	hemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Beige
Odor: Odor threshold:	Toluene Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-95 °C (-139 °F)
Boiling point/Boiling range:	110 °C (230 °F)
Flash point:	4 °C (39.2 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	535 °C (995 °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:	1.2 Vol %
Upper:	7 Vol %
Vapor pressure at 20 °C (68 °F):	29 hPa (21.8 mm Hg)
Vapor pressure at 50 °C (122 °F):	124 hPa (93 mm Hg)
Density at 20 °C (68 °F):	0.86719 g/cm <sup>3</sup> (7.2367 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 15 °C (59 °F):	0.5 g/l
Partition coefficient (n-octanol/water	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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# Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

	(Contd	. of page 6)
<ul> <li>Solvent content: Organic solvents: VOC content:</li> </ul>	99.8 % 99.79 % 865.4 g/l / 7.22 lb/gal	
Solids content:	0.2 %	
• 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:
- 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 (Internat	ional Agency for Research on Cancer)	
CAS: 108-88-3	Toluene	3
CAS: 86-74-8	Carbazole, 96%	2B
· 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.

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#### Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

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· 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.
- $\cdot \textit{Other adverse effects} \textit{ No further relevant information available}.$

### **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. (Toluene)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Toluene)
Transport hazard class(es)	
DOT	
RUMARE LOUD	
- Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids

Printing date 07/24/2024

Reviewed on 07/24/2024

### Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

	(Contd. of page
· Hazard identification number (Kemler code)	: 33
· EMS Number:	F-E,S-E
· 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	
· Limited quantities (LQ)	1L
$\cdot Excepted$ quantities ( $\widetilde{E}Q$ )	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE), 3, II

# 15 Regulatory information

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

Suru	
• Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
CAS: 108-88-3 Toluene	
· TSCA (Toxic Substances Control Act):	
Toluene	ACTIVE
Carbazole, 96%	ACTIVE
· Hazardous Air Pollutants	
CAS: 108-88-3 Toluene	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 86-74-8 Carbazole, 96%	
· 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:

CAS: 108-88-3 Toluene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 108-88-3 Toluene

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<sup>-</sup> US

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Trade name: Nitrogen Standard 150.0 ug/ml in Toluene

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A4

• TLV (Threshold Limit Value)

CAS: 108-88-3 Toluene

### · 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: Toluene Carbazole, 96% · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · 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. *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 exposed or concerned: Get medical advice/attention. 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. 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.

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Trade name: Nitrogen Standard

150.0 ug/ml in Toluene

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· 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 07/24/2024: Reviewed SDS for accuracy. MH/STN 07/24/2024 / 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)

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 2: Flammable liquids - Category 2

Skin Irritation 2: Skin corrosion/irritation – Category 2

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 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.