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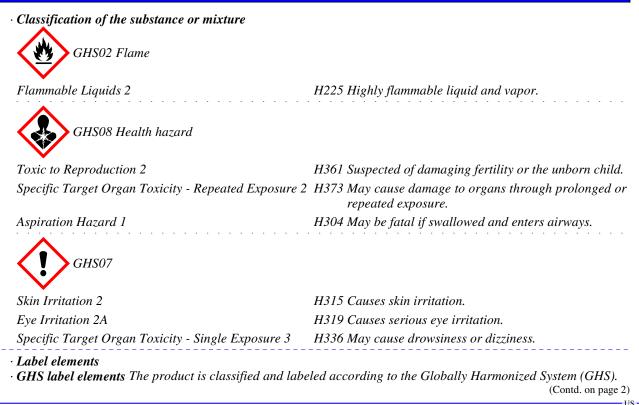
1 Identification

- · Product identifier
- Trade name: <u>Neutralization Number Solvent</u> for TAN (ASTM D3242, D664, D974)
- Article number: 6520
- 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



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Trade name: Neutralization Number Solvent for TAN (ASTM D3242, D664, D974)

(Contd. of page 1) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Toluene Isopropanol · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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. 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 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. (Contd. on page 3)

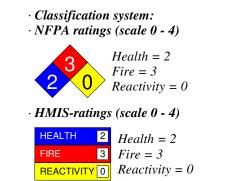
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(Contd. of page 2)



· 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 com	ponents:	
CAS: 108-88-3	Toluene	52.385%
CAS: 67-63-0	Isopropanol	47.01%
• Table of Nonha	zardous Ingredients	
CAS: 7732-18-5	Water	0.605%

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. 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
- \cdot Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- · 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 emerg	ency procedures	
Mount respiratory protective device.		
Wear protective equipment. Keep unprotected persons a	iway.	
• Environmental precautions:		
Dilute with plenty of water.		
Do not allow to enter sewers/ surface or ground water.		
• Methods and material for containment and cleaning u	p:	
Absorb with liquid-binding material (sand, diatomite, a		
Dispose contaminated material as waste according to s		
Ensure adequate ventilation.		
· Reference to other sections		
See Section 7 for information on safe handling.		
See Section 8 for information on personal protection eq	uipment.	
See Section 13 for disposal information.	1	
· Protective Action Criteria for Chemicals		
• PAC-1:		
CAS: 108-88-3 Toluene		67 ppm
CAS: 67-63-0 Isopropanol		400 ppm
· PAC-2:		
CAS: 108-88-3 Toluene		560 ppm
CAS: 67-63-0 Isopropanol		2000* ppm
· PAC-3:		
CAS: 108-88-3 Toluene	37	00* ppm
CAS: 67-63-0 Isopropanol	12	000** 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.

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• Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

 \cdot 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: 108-88-3 Toluene

- PEL Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
- REL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
- TLV Long-term value: 20 ppm BEI, OTO, A4

CAS: 67-63-0 Isopropanol

- PEL Long-term value: 980 mg/m³, 400 ppm REL Short-term value: 1225 mg/m³, 500 ppm
- Long-term value: 980 mg/m³, 400 ppm
- TLV Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

· Ingredients with biological limit values:

CAS: 108-88-3 Toluene

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)

CAS: 67-63-0 Isopropanol

BEI 40 mg/L

LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific)

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

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- · 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:

I COM

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 \cdot *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 • General Information	chemical properties	
· Appearance: Form:	Liquid	
Color:	Colorless	
· Odor:	Organic	
• Odor threshold:	Not determined.	
· pH-value at 20 °C (68 °F):	5.194	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	110 °C (230 °F)	
· Flash point:	<10 °C (<50 °F)	

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	(Contd. of page
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	425 °C (797 °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:	12 Vol %
· Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
· Density at 20 °C (68 °F):	0.82683 g/cm ³ (6.8999 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
• Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	e r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.4 %
Water:	0.6 %
VOC content:	99.40 %
	821.8 g/l / 6.86 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.

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3 3

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: 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: 108-88-3 Toluene

CAS: 67-63-0 Isopropanol

· 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:
- $\cdot \textit{Recommendation: Disposal must be made according to official regulations.}$

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Neutralization Number Solvent for TAN (ASTM D3242, D664, D974)

• 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. (Toluene, Isopropanol
IMDG, IATA) FLAMMABLE LIQUID, N.O.S. (Toluene, Isopropanol)
Transport hazard class(es)	
DOT	
RAMARE LOOD	
Class Label	3 Flammable liquids 3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids : 33 F-E, <u>S-E</u> 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

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Trade name: Neutralization Number Solvent
for TAN (ASTM D3242, D664, D974)

	(Contd. of page 9)	
· 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 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, ISOPROPANOL), 3, II	

15 Regulatory information

Section 355 (extra	emely hazardous substances):	
None of the ingre	dients is listed.	
Section 313 (Spec	cific toxic chemical listings):	
CAS: 108-88-3 T	oluene	
CAS: 67-63-0 Is	sopropanol	
TSCA (Toxic Sub	bstances Control Act):	
Toluene		ACTIVI
Isopropanol		ACTIVI
Water AC		ACTIVI
Hazardous Air Po	ollutants	
CAS: 108-88-3 T	oluene	
Proposition 65		
	n to cause cancer:	
None of the ingre	dients is listed.	
Chemicals known	n to cause reproductive toxicity for females:	
None of the ingre	dients is listed.	
Chemicals known	n to cause reproductive toxicity for males:	
None of the ingre	dients is listed.	
None of the ingrea	n to cause developmental toxicity:	
	<i>`oluene</i>	
Chemicals known CAS: 108-88-3 T		
Chemicals known CAS: 108-88-3 T Carcinogenic cat		
Chemicals known CAS: 108-88-3 T Carcinogenic cat	egories ental Protection Agency)	1
Chemicals knownCAS: 108-88-3TCarcinogenic cattEPA (EnvironmeCAS: 108-88-3T	egories ental Protection Agency) Foluene	1
Chemicals knownCAS: 108-88-3TCarcinogenic cattEPA (EnvironmeCAS: 108-88-3T	regories ental Protection Agency) Foluene Limit Value)	<i>I</i>
Chemicals known CAS: 108-88-3 T Carcinogenic catt EPA (Environme CAS: 108-88-3 T TLV (Threshold CAS: 108-88-3	regories ental Protection Agency) Foluene Limit Value)	

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Trade name: Neutralization Number Solvent for TAN (ASTM D3242, D664, D974)

(Contd. of page 10) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Toluene Isopropanol · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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. 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 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.

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Trade name: Neutralization Number Solvent for TAN (ASTM D3242, D664, D974)

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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 Revision 1.0 05/11/2023, reviewed SDS for accuracy. STN 05/11/2023 • 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 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A 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 \cdot * Data compared to the previous version altered.