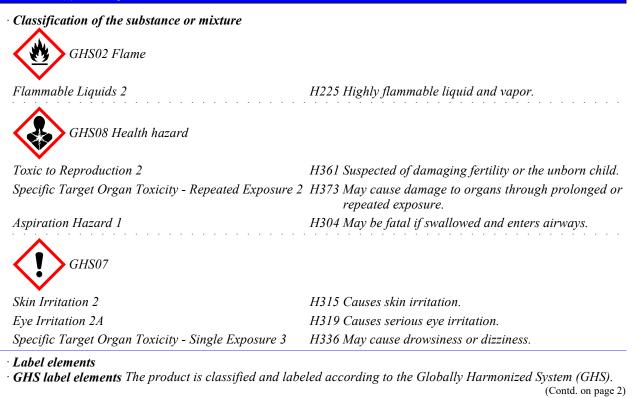
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1 Identification

- · Product identifier
- Trade name: <u>Titration Solvent For Neut</u> Numbers (ASTM D3242, D664, D974)
- · Article number: ERL079
- 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

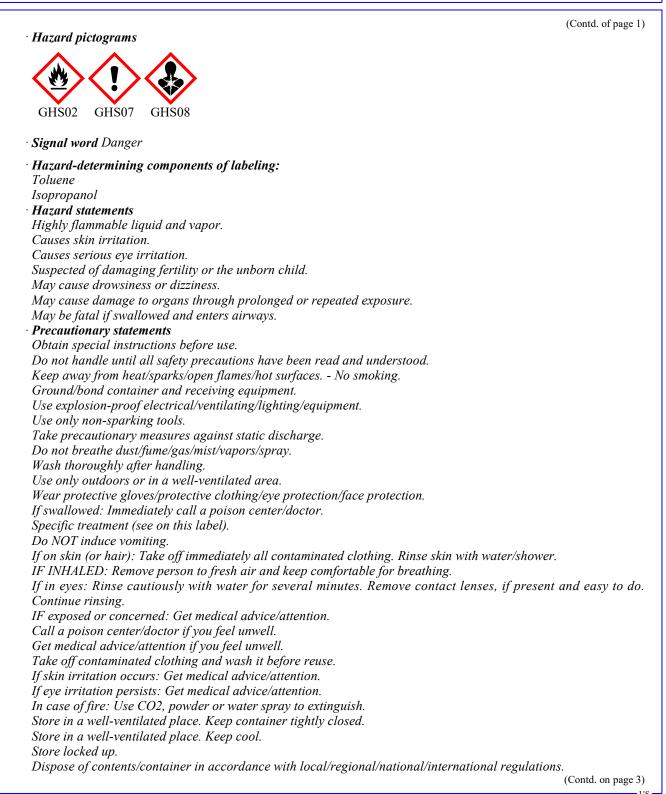
2 Hazard(s) identification



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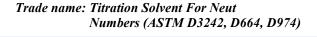
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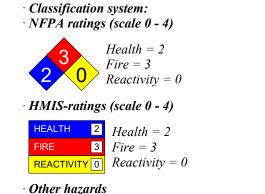


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· Results of PBT and vPvB assessment

• *PBT*: Not applicable.

• **vPvB:** 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
- · Suitable extinguishing agents:

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

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	ons unsuitable extinguishing agents: Water with full jet arising from the substance or mixture	(Contd. of pag
	or in case of fire poisonous gases are produced.	
Advice for firef		
Protective equip	ment: Mouth respiratory protective device.	
Accidental re	lease measures	
	utions, protective equipment and emergency procedures ry protective device.	
	equipment. Keep unprotected persons away.	
	precautions: Do not allow to enter sewers/ surface or ground water.	
	aterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose contam	inated material as waste according to section 13.	
Ensure adequat		
Reference to oth		
	r information on safe handling.	
	r information on personal protection equipment.	
	or disposal information. n Criteria for Chemicals	
PAC-1:		
CAS: 108-88-3	Toluene	67 ppn
CAS: 67-63-0	Isopropanol	400 pp
<i>PAC-2:</i>		
CAS: 108-88-3	Toluene	560 ppm
CAS: 67-63-0	Isopropanol	2000* pp
<i>PAC-3:</i>		
		3700* ppm
CAS: 108-88-3	Totuene	3700 ° 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.
- Further information about storage conditions: Keep receptacle tightly sealed.

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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

	ponents 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/m ³ , 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	
· Ingr	edients 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)	
· Addi	tional information: The lists that were valid during the creation were used as basis.	(Contd. on page 6)

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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:



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 physical and · General Information	chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Organic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
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 6
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/vapor mixtures are possible.
Explosion limits: Lower: Upper:	1.2 Vol % 12 Vol %
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1 g/cm³ (8.345 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	e r): Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents: Water: VOC content:	99.4 % 0.6 % 99.40 % 994.0 g/l / 8.29 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:
- 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:
- Recommendation: Disposal must be made according to official regulations.

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US

Transport information	
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	
R. AMMARIE LOUID	
Class	3 Flammable liquids
Label	3
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	- 33 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 (LO)	1L
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2
Exception quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 50 ml Maximum net quantity per outer packaging: 500 ml

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ACTIVE

Safety Data Sheet acc. to OSHA HCS

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· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, ISOPROPANOL), 3, 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.

· Section 313 (Specific toxic chemical listings):

CAS: 108-88-3 Toluene CAS: 67-63-0 Isopropanol

• TSCA (Toxic Substances Control Act):

Toluene Isopropanol Water

· Hazardous Air Pollutants

CAS: 108-88-3 Toluene

· 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:

CAS: 108-88-3 Toluene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 108-88-3 Toluene

• TLV (Threshold Limit Value)

CAS: 108-88-3 Toluene

CAS: 67-63-0 Isopropanol

·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). (Contd. on page 11)

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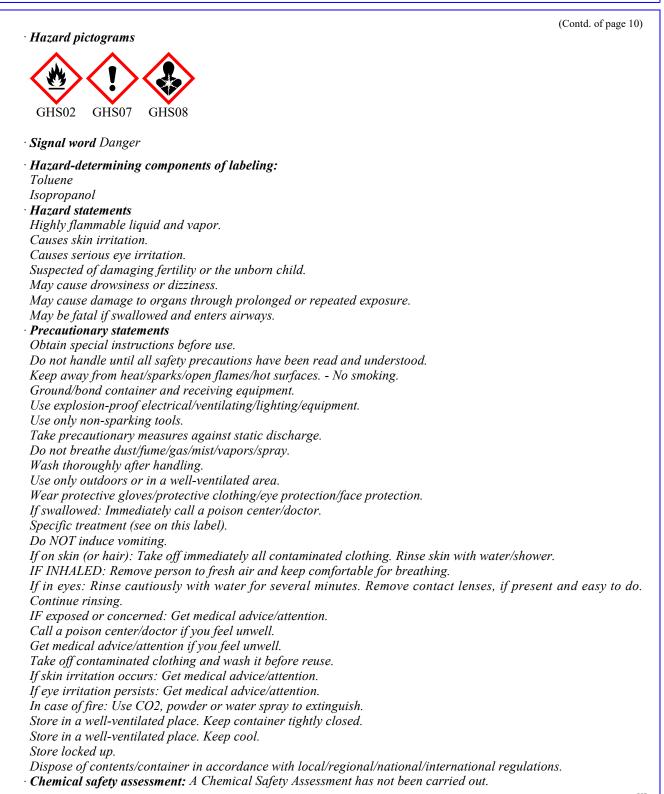
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16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Department issuing SDS: Environment protection department. · Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 08-19-2024: Reviewed SDS for accuracy. STN/GW Creation date for SDS 08-05-2014. STN 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) 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 * * Data compared to the previous version altered.