Printing date 07/24/2024

*

Reviewed on 07/24/2024

Identification	
Product identifier	
Trade name: <u>p-Naptholbenzein 1% w/v</u> in Titration Solvent	
Article number: AM030	
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	
GHS02 Flame Flammable Liquids 2 GHS08 Health hazard	H225 Highly flammable liquid and vapor.
<i>Toxic to Reproduction 2</i> <i>Specific Target Organ Toxicity - Repeated Exposure 2</i>	H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
GHS07	
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
	······································
Label elements GHS label elements The product is classified and labe	led according to the Globally Harmonized System (GHS).
Label elements GHS label elements The product is classified and labe	led according to the Globally Harmonized System (GHS).
Label elements	led according to the Globally Harmonized System (GHS).

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Trade name:	<i>p-Naptholbenzein</i> 1% w/v
	in Titration Solvent

• 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.
· Classification system:
· NFPA ratings (scale 0 - 4)
$\begin{array}{c} \textbf{3} \\ Fire = 3 \end{array}$
$\frac{2}{Reactivity} = 0$
• HMIS-ratings (scale 0 - 4)
$\frac{\text{HEALTH}}{2} Health = 2$
FIRE 3 $Fire = 3$
REACTIVITY \bigcirc Reactivity = 0
(Contd. on page 3)

(Contd. on page 3)

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0.597%

- · 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.

· D	angerous	components:

CAS: 108-88-3	Toluene	51.783%
CAS: 67-63-0	Isopropanol	46.425%
CAS: 145-50-6	a-Naptholbenzein, Indicator Grade	1.195%
Table of Nonha	zardous Ingredients	

CAS: 7732-18-5 Water

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. • 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.*

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		(Contd. of page 3)
 Environmental 	precautions:	
Dilute with pler	nty of water.	
Do not allow to	enter sewers/ surface or ground water.	
\cdot Methods and m	aterial for containment and cleaning up:	
Absorb with liq	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose contan	inated material as waste according to section 13.	
Ensure adequat	e ventilation.	
· Reference to ot	her sections	
See Section 7 fo	or information on safe handling.	
See Section 8 fc	or information on personal protection equipment.	
See Section 13	for disposal information.	
· Protective Action	on 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	3700* ppm
CAS: 67-63-0	Isopropanol	12000** 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.
- \cdot 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.

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Safety Data Sheet acc. to OSHA HCS

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Frade na	me: p-Naptholbenzein 1% w/v in Titration Solvent	
		(Contd. of page
· Cont	rol parameters	
	ponents with limit values that require monitoring at the workplace:	
	following constituents are the only constituents of the product which have a PEL, TLV	or other recommende
	sure limit.	
At th	is 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	
RFI	Short-term value: 560 mg/m ³ , 150 ppm	
KLL	Long-term value: 375 mg/m ³ , 100 ppm	
TIV		
ILV	Long-term value: 20 ppm	
<u></u>	BEI, OTO, A4	
	: 67-63-0 Isopropanol	
	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	
· Ingre	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	
	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.	
	sure controls	
	onal protective equipment:	
	ral protective and hygienic measures:	
	away from foodstuffs, beverages and feed.	
	ediately remove all soiled and contaminated clothing.	
	hands before breaks and at the end of work.	
Store	protective clothing separately.	
		(Contd. on page

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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:	Dark brown	
· Odor:	Toluene	
• Odor threshold:	Not determined.	
· pH-value:	Not determined.	
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 82 °C (179.6 °F)	
· Flash point:	4 °C (39.2 °F)	
· Flammability (solid, gaseous):	Highly flammable.	
· Auto igniting:	425 °C (797 °F)	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
		(Contd. on page 7)

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	(Contd. of page
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):	0.83699 g/cm ³ (6.98468 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	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	98.2 %
Water:	0.6 %
VOC content:	98.21 %
	822.0 g/l / 6.86 lb/gal
Solids content:	1.2 %
• Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- 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: 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

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[·] Chemical stability

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3

3

· 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.
- · 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

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	(Contd. of page
• Transport hazard class(es)	
·DOT	
3	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
····· · · · · · · · · · · · · · · · ·	
· Class · Label	3 Flammable liquids 3
	5
· Packing group · DOT, IMDG, IATA	11
· Environmental hazards:	11
• Environmental nazaras: • Marine pollutant:	No
 Special precautions for user Hazard identification number (Kemler code). 	Warning: Flammable liquids : 33
· 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 not augustitu non innon packasing: 20 ml
	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. (TOLUENI
· 01 WIOUEI REGULLION :	ISOPROPANOL
), 3, II

15 Regulatory information

*

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

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Sara Section 355 (e.	tremely hazardous substances):	
	redients is listed.	
Section 313 (S	pecific toxic chemical listings):	
CAS: 108-88-3		
CAS: 67-63-0	Isopropanol	
TSCA (Toxic S	ubstances Control Act):	
Toluene		ACTIV
Isopropanol		ACTIV
	rin, Indicator Grade	ACTIV
Water		ACTIV
Hazardous Air	Pollutants	
CAS: 108-88-3		
Proposition 65		
-	wn to cause cancer:	
None of the ing	redients is listed.	
Chemicals kno	wn to cause reproductive toxicity for females:	
	redients is listed.	
Chemicals kno	wn to cause reproductive toxicity for males:	
	redients is listed.	
	wn to cause developmental toxicity:	
CAS: 108-88-3	- ·	
Carcinogenic	ategories nental Protection Agency)	
CAS: 108-88-3		L. L
TLV (Thresho CAS: 108-88-3	,	
		A
CAS: 67-63-0		A
	tional Institute for Occupational Safety and Health)	
• •	redients is listed.	
GHS label eler Hazard pictog	nents The product is classified and labeled according to the	e Globally Harmonized System (GHS)
	ams	

GHS02 GHS07 GHS08

· Signal word Danger

Hazard-determining components of labeling: Toluene Isopropanol
Hazard statements Highly flammable liquid and vapor. Causes skin irritation.

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(Contd. of page 10)
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.

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 / 1.1
- 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)

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	(come of 1.85 cc)
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.	