Printing date 05/13/2024

Reviewed on 05/13/2024

1 Identification · Product identifier · Trade name: Phenol and <u>Benzyl Alcohol</u> 500 ppm w/v in Methanol • Article number: GP013 · 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 · Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS06 Skull and crossbones Acute Toxicity - Oral 3 H301 Toxic if swallowed. H311 Toxic in contact with skin. Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS06 GHS08

· Signal word Danger

(Contd. on page 2)

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Trade name: Phenol and Benzyl Alcohol 500 ppm w/v in Methanol

	(Contd. of page 1
Hazard-determining components of labeling:	
Methanol	
Hazard statements	
Highly flammable liquid and vapor.	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes damage to the central nervous system and the visual organs.	
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.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
f swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
f 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: Call a POISON CENTER or doctor/physician.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
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. Dismos of contents (contained in accordance with local/accional/actional/intermetional necelation	
Dispose of contents/container in accordance with local/regional/national/international regulation	lS.
Classification system: NFPA ratings (scale 0 - 4)	
vrra raungs (scale 0 - 4)	
Health = 2	
Fire = 3	
2×0 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH ^{*2} $Health = *2$	
FIRE 3 $Fire = 3$	
$\frac{1}{\text{REACTIVITY}[0]} Reactivity = 0$	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	

· Chemical characterization: Mixtures

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

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		(Contd. of page 2)
· Dangerous con		
CAS: 67-56-1	Methanol	99.874%
•	zardous Ingredients	
CAS: 100-51-6		0.063%
CAS: 108-95-2	Phenol	0.063%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

- *Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.*
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- $\cdot \textit{After skin contact: Immediately wash with water and so ap and rinse thoroughly.}$
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- 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
- \cdot 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. Ensure adequate ventilation.
 Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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Trade name: Phenol and Benzyl Alcohol 500 ppm w/v in Methanol

· Protective Actio	a Criteria for Chemicals	(Contd. of page 3)
• PAC-1:		
CAS: 67-56-1	Methanol	530 ppm
CAS: 100-51-6	Benzyl alcohol	30 ppm
CAS: 108-95-2	Phenol	15 ppm
· PAC-2:		
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 100-51-6	Benzyl alcohol	52 ppm
CAS: 108-95-2	Phenol	23 ppm
· PAC-3:		
CAS: 67-56-1	Methanol (Contraction of the contraction of the con	7200* ppm
CAS: 100-51-6	Benzyl alcohol	740 ppm
CAS: 108-95-2	Phenol	200 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. 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

· Com	ponents with limit values that require monitoring at the workplace:
CAS:	c 67-56-1 Methanol
PEL	Long-term value: 260 mg/m ³ , 200 ppm
	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
	(Contd. on page 5)

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BEI 15 mg/L. LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: Keep away from foodstuffs, beverages and feed. Immediately remove all solied 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 or respiratory protective device that is independent of circulating air. Protection of hands: Vir Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation/ I chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation fusion fusiture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation fusion fusiture. Selection of the glove material Store of phore material The selection of the suitable gloves does not		: 67-56-1 Methanol
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observed. Eye protection:		
Eye protection:		
Tightly sealed goggles	Eye J	protection:
Tighthy sealed goggles		
	(

· Body protection: Protective work clothing

Information on basic phy	vsical and chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Alcohol	

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	(Contd. of page
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-97.8 °C (-144 °F)
Boiling point/Boiling range:	64 °C (147.2 °F)
· Flash point:	11 °C (51.8 °F)
· Flammability (solid, gaseous):	Highly flammable.
• Auto igniting:	455 °C (851 °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:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
• Density at 20 °C (68 °F):	0.79162 g/cm³ (6.60607 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	791.6 g/l / 6.61 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.

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Trade name: Phenol and Benzyl Alcohol 500 ppm w/v in Methanol

• *Hazardous decomposition products:* No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

OralLD50100 mg/kgDermalLD50300 mg/kgInhalativeLC50/4h3 mg/l

· Primary irritant effect:

• on the skin: No irritant effect.

- 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: *Toxic*

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 108-95-2 Phenol

· 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- \cdot Other adverse effects No further relevant information available.

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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. (Methanol)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Methanol)
Transport hazard class(es)	
DOT	
RAMMABLE LOUD	
V	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	336
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: 1 L
2	On cargo aircraft only: 60 L

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Trade name:	e: Phenol and Benzyl Alcohol		
	500 ppm w/v in Methanol		

	(Contd. of page 8)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L 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. (METHANOL), 3, II

15 Regulatory information

Section 355 (es	xtremely hazardous substances):	
CAS: 108-95-2	Phenol	
Section 313 (S	pecific toxic chemical listings):	
CAS: 67-56-1	Methanol	
CAS: 108-95-2	Phenol	
TSCA (Toxic S	Substances Control Act):	
Methanol		ACTIV
Benzyl alcohol		ACTIV
Phenol		ACTIV
Hazardous Air	· Pollutants	· · · · ·
CAS: 67-56-1	Methanol	
CAS: 108-95-2	Phenol	
Proposition 65	;	
Chamicals kno		
Chemicuis kno	own to cause cancer:	
	own to cause cancer: gredients is listed.	
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None of the ing	gredients is listed.	
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None of the ing Chemicals kno None of the ing Chemicals kno None of the ing	gredients is listed. wen to cause reproductive toxicity for females: gredients is listed. wen to cause reproductive toxicity for males: gredients is listed. wen to cause developmental toxicity:	
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(Contd. on page 10)

Printing date 05/13/2024

Reviewed on 05/13/2024

Trade name: Phenol and Benzyl Alcohol 500 ppm w/v in Methanol

	(Contd. of page 9)
· Hazard pictograms	(contai of page))
$\wedge \land \land$	
GHS02 GHS06 GHS08	
· Signal word Danger	
· Hazard-determining components of labeling:	
Methanol	
· Hazard statements	
Highly flammable liquid and vapor.	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes damage to the central nervous system and the visual organs. • 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.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
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).	
Rinse mouth.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/showe	r.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed: Call a POISON CENTER or doctor/physician. Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
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 regulation	ns.
• 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, 05/13/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0. 08-04-2016: creation date for SDS. STN 05/13/2024

(Contd. on page 11)

____US

Printing date 05/13/2024

Reviewed on 05/13/2024

Trade name: Phenol and Benzyl Alcohol 500 ppm w/v in Methanol

	(Contd. of page 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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
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	
Acute Toxicity - Oral 3: Acute toxicity – Category 3	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1	
* Data compared to the previous version altered.	