Printing date 08/25/2021

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Reviewed on 08/25/2021

800-256-2586 Information department: Technical Coordinator Sherman Néson shermann@aquasolutions.org Emergency telephone number: Chemtree: 800-424-9300 Canter: 613-996-6666 Harcard(s) identification Cleamize: 613-996-6666 Harcard(s) identification Classification of the substance or mixture Optimize: 613-996-6666 Harcard(s) identification Classification of the substance or mixture Optimize: 613-996-6666 Harcard(s) identification Classification of the substance or mixture Optimize: 613-996-6666 Flam. Liq. 2 H225 Highly flammable liquid and vapor. Optimize: 61506 Skull and crossbones Acute Tox. 3 H311 Toxic in contact with skin. Optimize: 61505 Corrosion Skin Corr. 1B H314 Causes damage to the central nervous system and the visual organs. Optimize: 61505 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Copy<	Product iden	tifier	
Details of the supplier of the safety data sheet Manufacturer/Supplier: Aqua Solutions, Inc. Gil S Highway 225 DEER PARK, TX 77536 USA 800-256-2586 Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtre: R00-242-9300 Canutee: 613-996-6666 Interest R00-242-9300 Interest R00-24-94-900 Canutee: 613-996-6666 Interest R00-24-94-900 Canutee: 613-996-666 Interest R00-24-94-900 Canutee: 613-996-666 Interest R00-24-94-900 Interest R00-24-900 Interest R00-24-94-900 Interest R00-24-900 Interest R00-24-94-900 Interest R00-24-900 Interest R00-24-900 Interest R00-24-900 Interest R00-24-900 Interest R00-24-900 Interest R00-24-900	Trade name:		
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	Acute Tox. 4	H302 Harmful if swallowed.	
STOT SE 3 H335 May cause respiratory irritation.			
Label elements		H335 May cause respiratory irritation.	

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Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

(Contd. of page 1) · Hazard pictograms GHS06 GHS08 GHS02 GHS05 GHS07 · Signal word Danger · Hazard-determining components of labeling: 4-tert-butylcatechol Methanol (Methyl Alcohol) · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes damage to the central nervous system and the visual organs. May cause respiratory irritation. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. 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 dusts or mists. 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: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. 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. Immediately call a poison center/doctor. IF exposed: Call a POISON CENTER or doctor/physician. Specific treatment (see on this label). 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 cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 3Reactivity = 0

(Contd. on page 3)

Printing date 08/25/2021

Reviewed on 08/25/2021

Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

(Contd. of page 2)

85.0%

15.0%

· HMIS-ratings (scale 0 - 4)

HEALTH
$$3$$
Health = 3FIRE 3 Fire = 3REACTIVITYReactivity

 $\begin{array}{c} \text{ACTIVITY} \hline 0 \\ \end{array} \quad Reactivity = 0 \\ \end{array}$

• 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: 98-29-3 4-tert-butylcatechol

CAS: 67-56-1 Methanol (Methyl Alcohol)

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.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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. Then consult a doctor.
- · After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a 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.

(Contd. on page 4)

US

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/25/2021

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Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

· 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:	
Dilute with plenty of water.	
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 bi	nders, sawdust).
Use neutralizing agent.	
Dispose contaminated material as waste according to item 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.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 98-29-3 4-tert-butylcatechol	0.18 mg/m ³
CAS: 67-56-1 Methanol (Methyl Alcohol)	530 ppm
· PAC-2:	
CAS: 98-29-3 4-tert-butylcatechol	$2 mg/m^3$
CAS: 67-56-1 Methanol (Methyl Alcohol)	2,100 ppm
· PAC-3:	
CAS: 98-29-3 4-tert-butylcatechol	560 mg/m ³
CAS: 67-56-1 Methanol (Methyl Alcohol)	7200* ppm
-	

7 Handling and storage

· Handling:

- *Precautions for safe handling* Ensure good ventilation/exhaustion at the workplace. 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.

(Contd. on page 5)

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Trade name: 4-tert-Butyl Catechol

85% w/w In Methanol

(Contd. of page 4)

• 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 item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 98-29-3 4-tert-butylcatechol

WEEL Ceiling limit value: 2 mg/m³ Skin, DSEN

CAS: 67-56-1 Methanol (Methyl Alcohol)

PEL Long-term value: 260 mg/m³, 200 ppm

- REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
 TLV Short-term value: 250 ppm
- Long-term value: 200 ppm Skin; BEI

· Ingredients with biological limit values:

CAS: 67-56-1 Methanol (Methyl Alcohol)

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 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.

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 (Contd. on page 6)

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Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

(Contd. of page 5)

· 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

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Beige to Tan to Brown · Odor: *Characteristic* · Odor threshold: Not determined. Not determined. · pH-value: · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: 64 °C (147.2 °F) 11 °C (51.8 °F) · Flash point: · Flammability (solid, gaseous): Not applicable. 455 °C (851 °F) · Ignition temperature: · Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. · Danger of explosion: Product is not explosive. However, formation of explosive air/vapor 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): 1.01122 g/cm³ (8.43863 lbs/gal) · Relative density Not determined. · Vapor density Not determined. Not determined. · Evaporation rate · Solubility in / Miscibility with Water: Fully miscible.

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Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

	(Contd. of p	age
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	15.0 %	
VOC content:	15.00 %	
	151.7 g/l / 1.27 lb/gal	
Solids content:	85.0 %	
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.
- \cdot 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:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)			
Oral		555 mg/kg	
	LD50	541 mg/kg	
Inhalative	LC50/4h	20 mg/l	

CAS: 98-29-3 4-tert-butylcatechol			
Oral		500 mg/kg (ATE)	
Dermal		1,100 mg/kg (ATE)	
CAS: 67-5	6-1 Metho	inol (Methyl Alcohol)	
Oral	LD50	100 mg/kg (ATE)	

Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4h	3 mg/l (ATE)

· Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

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Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

(Contd. of page 7)

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· 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. Must not reach bodies of water or drainage ditch undiluted or unneutralized. 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.

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Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

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UN-Number	
DOT, IMDG, IATA	UN2924
UN proper shipping name	
DOT	Flammable liquids, corrosive, n.o.s. (Methanol, 4-te
	butylcatechol)
IMDG	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHANOL tert-butylcatechol), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHANOL
	tert-butylcatechol)
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3, 8
IMDG	
Class	3 Flammable liquids
Label	3/8
IATA	
Class	3 Flammable liquids
Label	3 (8)
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: 4-to
Marine and Hadarate	butylcatechol
Marine pollutant:	Yes Symbol (fish and tree)
Spacial presquitions for user	• •
Special precautions for user Hazard identification number (Kemler c	Warning: Flammable liquids ode): 338
EMS Number:	<i>F-E,S-C</i>
Segregation groups	Acids
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.

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Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

	(Contd. of page
• 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
	On cargo aircraft only: 5 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 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S (METHANOL, 4-TERT-BUTYLCATECHOL), 3 (8), 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: 67-56-1 Methanol (Methyl Alcohol)	
· TSCA (Toxic Substances Control Act):	
4-tert-butylcatechol	ACTIVE
Methanol (Methyl Alcohol)	ACTIVE
· Hazardous Air Pollutants	
CAS: 67-56-1 Methanol (Methyl Alcohol)	
· 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: 67-56-1 Methanol (Methyl Alcohol)	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
	(Contd. on page 11)

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\cdot 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*



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Trade name: 4-tert-Butyl Catechol 85% w/w In Methanol

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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 0.0, 08-08-2016: Creation date for SDS. STN Revision 1.0, 08-12-2021: upodated hazard information. STN 08/25/2021 / 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) 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 Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 • * Data compared to the previous version altered.