Printing date 07/22/2024

Reviewed on 07/22/2024

1 Identification	
· Product identifier	
• Trade name: <u>Phenol Stock</u> <u>Solution</u>	
· Article number: DC854	
• 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	
2 Hazard(s) identification	
Classification of the substance or mixture GHS06 Skull and crossbones Acute Toxicity - Inhalation 3 GHS08 Health hazard	H331 Toxic if inhaled.
	<ul><li>H341 Suspected of causing genetic defects.</li><li>H373 May cause damage to organs through prolonged or repeated exposure.</li></ul>
GHS05 Corrosion	
Skin Corrosion 1B Eye Damage 1 GHS07	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Acute Toxicity - Orul 4	

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(Contd. of page 1) · Hazard pictograms GHS06 GHS05 GHS08 · Signal word Danger · Hazard-determining components of labeling: Phenol Sodium Hydroxide · Hazard statements *Combustible liquid.* Harmful if swallowed. Toxic if inhaled. Causes severe skin burns and eye damage. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. *Keep away from flames and hot surfaces. – No smoking.* 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 or concerned: Get medical advice/attention. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Wash contaminated clothing 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 regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 2Reactivity = 0(Contd. on page 3)

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· HMIS-ratings (scale 0 - 4)

HEALTH
$$3$$
Health = 3FIRE $0$ Fire = 0REACTIVITY $0$ Reactivity = 0

· 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.

CAS: 108-95-2	Phenol	8.125%
CAS: 1310-73-2	Sodium Hydroxide	3.133%
• Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	Water	88.742%

### 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.

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.

- 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.

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· S	necial	hazards	arising	from	the	substance	or	mixture	
~	peciai	nu gun us	winns.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	inc	Substance		manne	

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 precau	tions, protective equipment and emergency procedures	
	ry protective device.	
Wear protective	equipment. Keep unprotected persons away.	
• Environmental <sub>I</sub>		
Dilute with plent		
	enter sewers/ surface or ground water.	
	tterial for containment and cleaning up:	
	id-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing		
	nated material as waste according to section 13.	
Ensure adequate		
· Reference to oth		
	r information on safe handling.	
	r information on personal protection equipment.	
	or disposal information.	
• Protective Action	n Criteria for Chemicals	
· PAC-1:		
CAS: 108-95-2	Phenol	15 ppm
CAS: 1310-73-2	Sodium Hydroxide	$0.5 \ mg/m^3$
· PAC-2:		
CAS: 108-95-2	Phenol	23 ppm
CAS: 1310-73-2	Sodium Hydroxide	$5 mg/m^3$
• PAC-3:		
CAS: 108-95-2	Phenol	200 ppm
CAS: 1310-73-2	Sodium Hydroxide	$50 \text{ mg/m}^3$

## 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 respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

• Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

• Information about storage in one common storage facility: Not required.

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

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• 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: 108-95-2 Phenol

 PEL Long-term value: 19 mg/m<sup>3</sup>, 5 ppm Skin
REL Long-term value: 19 mg/m<sup>3</sup>, 5 ppm Ceiling limit value: 60\* mg/m<sup>3</sup>, 15.6\* ppm

\*15-min; Skin

*TLV Long-term value: 5 ppm Skin; BEI, A4* 

### CAS: 1310-73-2 Sodium Hydroxide

PEL Long-term value: 2 mg/m<sup>3</sup>

REL Ceiling limit value: 2 mg/m<sup>3</sup>

TLV Ceiling limit value: 2 mg/m<sup>3</sup>

### · Ingredients with biological limit values:

### CAS: 108-95-2 Phenol

BEI 250 mg/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Phenol with hydrolysis (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

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• 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: Yellow-brown · Odor: Phenol · Odor threshold: Not determined. Not determined. · pH-value: · Change in condition *Melting point/Melting range:* Undetermined. 100 °C (212 °F) Boiling point/Boiling range: 82 °C (179.6 °F) · Flash point: · Flammability (solid, gaseous): Not applicable. 595 °C (1,103 °F) • Auto igniting: • Decomposition temperature: Not determined. · Ignition temperature: Product is not selfigniting. • Danger of explosion: Not determined. · Explosion limits: Lower: Not determined. Upper: Not determined. 23 hPa (17.3 mm Hg) • Vapor pressure at 20 °C (68 °F): 1.0215 g/cm<sup>3</sup> (8.52442 lbs/gal) • Density at 20 °C (68 °F): · Relative density Not determined. · Vapor density Not determined. Not determined. · Evaporation rate · Solubility in / Miscibility with Water: Fully miscible. · Partition coefficient (n-octanol/water): Not determined.

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· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	8.1 %	
Water:	88.7 %	
VOC content:	8.13 %	
	83.0 g/l / 0.69 lb/gal	
Solids content:	11.3 %	
• 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.

## **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

### ATE (Acute Toxicity Estimate)

•		,
Oral	LD50	1,207 mg/kg
	LD50	3,692 mg/kg
Inhalative	LC50/4h	6.15 mg/l

· 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.
- · 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.

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· 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 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.

· UN-Number	
· DOT, IMDG, IATA	UN2922
· UN proper shipping name	
$\cdot DOT$	Corrosive liquids, toxic, n.o.s. (Sodium Hydroxide, Phenol)
· IMDG, IATA	CORROSIVE LIQUID, TOXIC, N.O.S. (Sodium Hydroxi
,	$\tilde{z}$ Phenol)

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	(Contd. o	fpag
Transport hazard class(es)		
DOT		
6		
Class	8 Corrosive substances	
Label	8, 6.1	
IMDG		
8 6		
Class	8 Corrosive substances	
Label	8/6.1	
IATA		
8 6		
Class	8 Corrosive substances	
Label	8 (6.1)	
Packing group	11	
DOT, IMDG, IATA	II	
Environmental hazards: Marine pollutant:	No	
Special precautions for user Hazard identification number (Kemler code):	<i>Warning: Corrosive substances</i> 80	
EMS Number:	<i>F-A,S-B</i>	
Segregation groups	(SGG18) Alkalis	
Stowage Category	B	
Stowage Code	SW2 Clear of living quarters.	
Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT Overtite limitations	On passance since the it I	
Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L	
IMDG		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	
	(Contd. on	

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· UN "Model Regulation":

UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (SODIUM HYDROXIDE, PHENOL), 8 (6.1), 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):	
CAS: 108-95-2 Phenol	
· Section 313 (Specific toxic chemical listings):	
CAS: 108-95-2 Phenol	
• TSCA (Toxic Substances Control Act):	
Water	ACTIVI
Phenol	ACTIVI
Sodium Hydroxide	ACTIVI
· Hazardous Air Pollutants	
CAS: 108-95-2 Phenol	
· 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:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	

LIA (LINION	menuu I Tolecuon Agency)	
CAS: 108-95-2	Phenol	D, I
• TLV (Thresho	ld Limit Value)	
CAS: 108-95-2	Phenol	A4
·NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ing	redients is listed.	

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

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Hazard-determining components of labeling:
Phenol
Sodium Hydroxide
· Hazard statements
Combustible liquid.
Harmful if swallowed.
Toxic if inhaled.
Causes severe skin burns and eye damage.
Suspected of causing genetic defects.
May cause damage to organs through prolonged or repeated exposure.
· Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. – No smoking.
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 or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Wash contaminated clothing 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 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, 07-22-2024: Reviewed SDS for accuracy. STN/GW 07/22/2024 / 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

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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 4: Flammable liquids – Category 4	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Acute Toxicity - Inhalation 3: Acute toxicity – Category 3	
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B	
Eye Damage 1: Serious eve damage/eye irritation – Category 1	
Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2	
* Data compared to the previous version altered.	