Printing date 05/15/2023

Reviewed on 05/15/2023

1 Identification

- · Product identifier
- Trade name: <u>Acid Fuchsin Solution</u>
- · Article number: CY001
- 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



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(Contd. of page 1)
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
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).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 3
Fire = 0
$\frac{3}{Reactivity} = 0$
Keucuvuy = 0
· HMIS-ratings (scale 0 - 4)
HEALTH *3 $Health = *3$
FIRE 0 Fire = 0
$\begin{array}{c} \text{REACTIVITY} \\ \hline \end{array} Reactivity = 0 \end{array}$
· 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 comp	ponents:	
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	10.97%
CAS: 67-56-1	Methanol	1.507%
v	ardous Ingredients	
CAS: 7732-18-5	Water	87.466%
CAS: 632-99-5	(4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2- methylanilinehydrochloride	0.057%

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- 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. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

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- US

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- · 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: Use fire fighting measures that suit the environment.
- · 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

	t ions, protective equipment and emergency procedures y protective device.	
-	equipment. Keep unprotected persons away.	
· Environmental p		
Dilute with plent		
	nter sewers/ surface or ground water.	
	terial for containment and cleaning up:	
	d-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing		
	nated material as waste according to section 13.	
Ensure adequate	•	
· Reference to oth		
	information on safe handling.	
	information on safe nanating. information on personal protection equipment.	
	r disposal information.	
	Criteria for Chemicals	
· PAC-1:		
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	$0.20 \ mg/m^{3}$
CAS: 67-56-1	Methanol	530 ppm
· PAC-2:		
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	$8.7 mg/m^3$
CAS: 67-56-1	Methanol	2,100 ppm
· PAC-3:		
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	160 mg/m ³
CAS: 67-56-1	Methanol	7200* 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.

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· 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.
- \cdot 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 l	limit values that	require	monitoring	at the	workplace:	
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CAS: 7664-93-9 Sulfuric Acid 96 - 98%

PEL Long-term value: 1 mg/m³

REL Long-term value: 1 mg/m³ TLV Long-term value: 0.2* mg/m³

*as thoracic fraction, A2

CAS: 67-56-1 Methanol

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

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.

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· 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 c General Information	hemical properties	
Appearance:	v	
Form: Color:	Liquid Brown	
Color: Odor:	Brown Mild	
Odor threshold:	Not determined.	
<i>pH-value at 20 °C (68 °F):</i>	<2	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.0483 g/cm ³ (8.74806 lbs/gal)	

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		(Contd. of page
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	1.5 %	
Water:	87.5 %	
VOC content:	1.51 %	
	15.8 g/l / 0.13 lb/gal	
Solids content:	0.1 %	
• 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 ar	e relevant for	classification:
--------------------------	----------------	-----------------

ATE (Acute Toxicity Estimate)				
Oral	LD50	6,635 mg/kg		
	LD50	6,635 mg/kg 19,904 mg/kg		
Inhalative	LC50/4h	199 mg/l		

· Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

 \cdot on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- $\cdot \textit{Additional toxicological information:}$

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

Irritant

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(Contd. of page 6) 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 (Internatio	onal Agency for Research on Cancer)	
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	1
CAS: 632-99-5	(4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2- methylanilinehydrochloride	2B
· NTP (National T	Foxicology Program)	

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 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	UN1760	

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UN proper chinning news	(Contd. of pa
UN proper shipping name	Company liquida a o a (Sulfuri- A-id)
DOT	Corrosive liquids, n.o.s. (Sulfuric Acid)
IMDG, IATA	CORROSIVE LIQUID, N.O.S. (Sulfuric Acid)
Transport hazard class(es)	
DOT	
CORROSIVE	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
3	
Class.	8 Companya substances
Class Label	8 Corrosive substances 8
	0
Packing group	
DOT, IMDG, IATA	11
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
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	
Quantity limitations	On passenger aircraft/rail: 1 L
<i>Quantity unnumons</i>	On cargo aircraft only: 30 L
IMDG	11
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (SULFURIC ACID), 8,
5	

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· Sara		
• Section 355 (extremely h		
CAS: 7664-93-9 Sulfurio		
• Section 313 (Specific tox		
CAS: 7664-93-9 Sulfurio		
CAS: 67-56-1 Methan	vol	
• TSCA (Toxic Substances	s Control Act):	
Water		ACTIV
Sulfuric Acid 96 - 98%		ACTIV
Methanol		ACTIV
(4-(4-aminophenyl)(4-im	inocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride	ACTIV
Hazardous Air Pollutan	ts	
CAS: 67-56-1 Methanol		
Proposition 65		
Chemicals known to cau		
None of the ingredients i.	s listed.	
Chemicals known to cau	se reproductive toxicity for females:	
None of the ingredients i.	s listed.	
Chemicals known to cau	se reproductive toxicity for males:	
None of the ingredients i.	s listed.	
Chemicals known to cau	se developmental toxicity:	
CAS: 67-56-1 Methanol		
· Carcinogenic categories		
· Carcinogenic calegories · EPA (Environmental Pr	atertion Agency)	
· EI A (Environmeniai I I	olection Agency)	

· 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*



· Signal word Danger

· Hazard-determining components of labeling:

Sulfuric Acid 96 - 98%

· Hazard statements

Causes severe skin burns and eye damage. May cause cancer.

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(Contd. of page 9) · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. 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). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · National regulations: · Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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
 Revision 1.0 05/15/2023, reviewed SDS for accuracy. STN

 Revision 1.0 01-10-2022, removed fluoride and sulfate from ingredients. STN
 Creation date for SDS 09-11-14. STN
 05/15/2023

 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

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Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Eye Damage 1: Serious eye damage/eye irritation – Category 1 Carcinogenicity 1A: Carcinogenicity – Category 1A • * Data compared to the previous version altered. (Contd. of page 10)

US