Printing date 06/13/2024

Reviewed on 06/13/2024

Product identifier		
Trade name: <u>Butyric Ac</u>	rid 99%	
Article number: B8800 CAS Number:		
107-92-6		
EC number:		
203-532-3 Index number:		
607-135-00-X		SOLUTIONS
Details of the supplier of		
Manufacturer/Supplier: Aqua Solutions, Inc.		
6913 Highway 225		
DEER PARK, TX 77536 USA		
800-256-2586		
Information department	<i>t</i> :	
Technical Coordinator	nn@aquasolutions are	
Sherman Nelson sherma Technical Coordinator	nn waquasotunons.org	
Sherman Nelson sherma		
<i>Emergency telephone n</i> <i>Chemtrec: 800-424-930</i>		
Canutec: 613-996-6666	-	
	tion	
Hazard(s) identifica		
Classification of the sub	ostance or mixture	
Classification of the sub		
Classification of the sub	ostance or mixture and crossbones	
Classification of the sub	ostance or mixture	
Classification of the sub	ostance or mixture and crossbones 3 H311 Toxic in contact with skin.	
Classification of the sub GHS06 Skull Acute Toxicity - Dermal	ostance or mixture and crossbones 3 H311 Toxic in contact with skin.	
Classification of the sub GHS06 Skull Acute Toxicity - Dermal	ostance or mixture and crossbones 3 H311 Toxic in contact with skin.	eye damage.
Classification of the sub GHS06 Skull Acute Toxicity - Dermal GHS05 Corro Skin Corrosion 1B	estance or mixture and crossbones 3 H311 Toxic in contact with skin.	eye damage.
Classification of the sub GHS06 Skull Acute Toxicity - Dermal	estance or mixture and crossbones 3 H311 Toxic in contact with skin.	eye damage.
Classification of the sub GHS06 Skull Acute Toxicity - Dermal GHS05 Corro Skin Corrosion 1B	estance or mixture and crossbones 3 H311 Toxic in contact with skin.	eye damage.
Classification of the sub GHS06 Skull Acute Toxicity - Dermal GHS05 Corro Skin Corrosion 1B GHS07	ostance or mixture and crossbones 3 H311 Toxic in contact with skin. sion H314 Causes severe skin burns and	eye damage.

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		(Contd. of page
Hazard pic	tograms	
<ul><li>▲ ※</li></ul>		
GHS05	GHS06	
Signal wor	<b>d</b> Danger	
Hazard sta	tements	
Combustib	le liquid.	
Harmful if	swallowed.	
Toxic in co	ntact with skin.	
Causes sev	ere skin burns and eye damage.	
Precaution	nary statements	
Keep away	from flames and hot surfaces. – No smoking.	
	athe dusts or mists.	
Wash thore	pughly after handling.	
	drink or smoke when using this product.	
	ective gloves/protective clothing/eye protection/face protection.	
If swallowe	ed: Call a poison center/doctor if you feel unwell.	
If swallowe	ed: Rinse mouth. Do NOT induce vomiting.	
If on skin (	or hair): Take off immediately all contaminated clothing. Rinse	skin with water/shower.
IF INHALE	ED: Remove person to fresh air and keep comfortable for breath	hing.
	Rinse cautiously with water for several minutes. Remove con	ntact lenses, if present and easy to a
Continue r		
Immediatel	ly call a poison center/doctor.	
Specific tre	eatment (see on this label).	
Take off im	mediately all contaminated clothing and wash it before reuse.	
In case of f	fire: Use CO2, powder or water spray to extinguish.	
Store in a v	vell-ventilated place. Keep cool.	
Store locke	ed up.	
	contents/container in accordance with local/regional/national/	international regulations.
Classificati		
NFPA rati	ngs (scale 0 - 4)	
	Health = 2	
	Fire = 2	
	$\checkmark$ Reactivity = 0	
HMIS-rati	ings (scale 0 - 4)	
HEALTH	2 $Health = 2$	
FIRE	2 $Fire = 2$	
REACTIVITY		
Other haza	urds	
	PBT and vPvB assessment	
PBT: Not a		
	applicable.	
VI VD: NOL		

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### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- CAS: 107-92-6 butyric acid
- · Identification number(s)
- EC number: 203-532-3
- Index number: 607-135-00-X

#### 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: 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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures 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 binders, sawdust). Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

- Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

· PAC-1: 1.4 ppm

- **PAC-2:** 66 mg/m3
- **PAC-3:** 400 mg/m3

### 7 Handling and storage

· Handling:

- **Precautions for safe handling** No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · 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.
- 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: Not required.
- 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 and skin.

- Breathing equipment: Not required.
- 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  $\cdot$  **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.

· 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.

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• Eye protection:

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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Unpleasant	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-5.55 °C (22 °F)	
Boiling point/Boiling range:	164 °C (327.2 °F)	
Flash point:	67 °C (152.6 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto igniting:	440 °C (824 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	2 Vol %	
Upper:	10 Vol %	
Vapor pressure at 20 °C (68 °F):	1.12 hPa (0.8 mm Hg)	
Density at 20 °C (68 °F):	0.96 g/cm <sup>3</sup> (8.0112 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
<i>Water at 20 °C (68 °F):</i>	>-38 g/l	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No further relevant information available.	

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### **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:

Oral LD50 500 mg/kg (ATE)

Dermal LD50 300 mg/kg (ATE)

- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information: 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) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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 (Assessment by list): 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.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 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.*
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	13/2020
DOT, IMDG, IATA	UN2820
UN proper shipping name	
DOT	Butyric acid
IMDG, IATA	BUTYRIC ACID
Transport hazard class(es)	
DOT	
July 200	
CORROSIVE	
6	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
····· · · · · · · · · · · · · · · · ·	
8	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	A
Stowage Code	SW1 Protected from sources of heat.
Handling Code	H2 Keep as cool as reasonably practicable
Segregation Code	SG36 Stow "separated from" SGG18-alkalis.
	SG49 Stow "separated from" SGG6-cyanides
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.

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· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· IMDG	
Limited quantities (LQ)	5L
$\cdot$ Excepted quantities ( $\widetilde{E}Q$ )	Code: El
1 1 2	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 2820 BUTYRIC ACID, 8, III

### **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): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

• Hazard statements Combustible liquid. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage.

• Precautionary statements Keep gugy from flamos and hot

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. Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

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Reviewed on 06/13/2024

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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. 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. • 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, 06/13/2024: Reviewed SDS for accuracy. MH/STN 06/13/2024 / 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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 Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Acute Toxicity - Dermal 3: Acute toxicity - Category 3 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B • \* Data compared to the previous version altered.