Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: September 14, 2020

1 Identification	
· Product identifier	
 Trade name: <u>Butyric Acid</u> Product code: S25211A CAS Number: 107-92-6 	
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. 	
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177 	
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 	
2 Hazard(s) identification	
 Classification of the substance or mixture Flam. Liq. 4 H227 Combustible liquid. Acute Tox. 4 H302 Harmful if swallowed. Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. 	
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS Hazard pictograms:).
GHS05 GHS07	
 Signal word: Danger Hazard statements: H227 Combustible liquid. H302 Harmful if swallowed. 	
H314 Causes severe skin burns and eye damage.	(Cont'd. on page 2)

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 Precautionary sta 	atements:
P210	Keep away from flames and hot surfaces. – No smoking.
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• Other hazards 7	There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances

- · CAS No. Description
- 107-92-6 butyric acid

4 First-aid measures

[•] Description of first aid measures	
• After inhalation: Supply fresh air; consult doctor in case of complaints.	
After skin contact:	
Immediately remove any clothing soiled by the product.	
Wash with soap and water.	
Seek immediate help for blistering or open wounds.	
After eye contact:	
Protect unharmed eye.	
Immediately remove contact lenses if possible.	
Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help.	
Most important symptoms and effects, both acute and delayed:	
Strong caustic effect on skin and mucous membranes.	
· Danger:	
Danger of gastric perforation.	
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Causes severe skin burns and eye damage. Harmful if swallowed.

• Indication of any immediate medical attention and special treatment needed: Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

[·] Extinguishing media

· Suitable extinguishing agents:

Carbon dioxide Foam Fire-extinguishing powder Gaseous extinguishing agents Water fog / haze • For safety reasons unsuitable extinguishing agents: Water stream. • Special hazards arising from the substance or mixture Combustible liquid. In case of fire, the following can be released: Carbon monoxide, carbon dioxide. Heating may produce toxic and corrosive fumes. • Advice for firefighters • Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

• Environmental precautions Do not allow to enter sewers/ surface or ground water.

[•] Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

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.

7 Handling and storage

[·] Handling

· Precautions for safe handling:

Prevent formation of aerosols.

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Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

· Information about protection against explosions and fires:

Combustible liquid.

Keep ignition sources away - Do not smoke.

- [•] Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

[·] Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Engineering controls: Provide adequate ventilation.
- · Breathing equipment:

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product. **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

Limitation and supervision of exposure into the environment

No relevant information available.

Risk management measures No relevant information available.

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9 Physical and chemical properties				
· Information on basic physical and chemical properties				
· Appearance:				
Form:	Liquid			
Color:	Colorless			
Odor:	Rancid			
· Odor threshold:	Not determined.			
· pH-value:	Not determined.			
 Melting point/Melting range: 	-6 °C (21.2 °F)			
 Boiling point/Boiling range: 	162-165 °C (323.6-265 °F)			
· Flash point:	69 °C (156.2 °F)			
· Flammability (solid, gaseous):	Not applicable.			
· Auto-ignition temperature:	424 °C (795.2 °F)			
· Decomposition temperature:	Not determined.			
· Danger of explosion:	Not determined.			
· Explosion limits				
Lower:	Not determined.			
Upper:	Not determined.			
 Oxidizing properties: 	Non-oxidizing.			
· Vapor pressure at 20 °C (68 °F):	1.12 hPa (0.8 mm Hg)			
[.] Density at 20 °C (68 °F):	0.96 g/cm³ (8.01 lbs/gal)			
Relative density:	Not determined.			
· Vapor density:	Not determined.			
 Evaporation rate: 	Not determined.			
· Solubility in / Miscibility with				
Water:	Fully miscible.			
· Partition coefficient (n-octanol/wat	er): Not determined.			
· Viscosity				
Dynamic:	Not determined.			
Kinematic:	Not determined.			
[•] Other information	No relevant information available.			

10 Stability and reactivity

• **Reactivity:** No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Used empty containers may contain product gases which form explosive mixtures with air.

• Conditions to avoid Keep ignition sources away - Do not smoke.

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Incompatible materials

Alkalis.

Oxidizing agents.

Hazardous decomposition products Carbon monoxide and carbon dioxide

11 Toxicological information

[·] Information on toxicological effects

· Acute toxicity: Harmful if swallowed.

· LD/LC50 values that are relevant for classification:

Oral LD50 1630 mg/kg (rat)

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Oral LD50 1630 mg/kg (rat)

Primary irritant effect:

· On the skin: Strong caustic effect on skin and mucous membranes.

• On the eye: Strong caustic effect.

· Sensitization: Based on available data, the classification criteria are not met.

· 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.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] Toxicity

- · Aquatic toxicity No relevant information available.
- Persistence and degradability No relevant information available.
- · **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- [•] Additional ecological information
- · General notes:

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(Cont'd. of page 6) 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.

• Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

4 Transport information		
[·] UN-Number [·] DOT, ADR/RID/ADN, IMDG, IATA	UN2820	
 [·] UN proper shipping name [·] DOT [·] ADR/RID/ADN, IMDG, IATA 	Butyric acid BUTYRIC ACID	
[·] Transport hazard class(es)		
· DOT		
Scenosyc 9		
· Class	8	
·Label	8	
· ADR/RID/ADN		
Class	8 (C3)	
	8	
· IMDG, IATA		
Class	8	
· Label	8	

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[·] Packing group [·] DOT, ADR/RID/ADN, IMDG, IATA	Ш	
[·] Environmental hazards [·] Marine pollutant:	No	
 Special precautions for user Hazard identification number (Kemler code): 	Warning: Corrosive substances 80	
 Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code 	f Not applicable.	

Safety, health and environmental regulations/legislation specific for the substance or mixture

· United States (USA)

SARA

• Section 302 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act)

· Proposition 65 (California)

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

 \cdot Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

• EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

Canadian Domestic Substances List (DSL):

16 Other information

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(Cont'd. of page 8) 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. · Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Liq. 4: Flammable liquids - Category 4 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com