

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 1 of 11

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Butyric acid &gt; 99 % (butanoic acid) technical grade

REACH Registration Number: 01-2119488986-11-XXXX  
CAS No: 107-92-6  
Index No: 607-135-00-X  
EC No: 203-532-3

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Reagents and laboratory chemicals  
Only for laboratory and analysis purposes.

**Uses advised against**

Do not use for private purposes (household).

**1.3. Details of the supplier of the safety data sheet**

Company name: AnalytiChem GmbH  
ACD  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
Telefax: 0203/5194-290  
E-mail: info@analytichem.de  
Contact person: Abteilung Produktsicherheit  
Telephone: 0203/5194-107/117  
E-mail: produktsicherheit@analytichem.de  
Internet: www.analytichem.de  
Responsible Department: Abteilung Produktsicherheit

**1.4. Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

**Further Information**

No data available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Corr. 1B; H314

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008**

Signal word: Danger

Pictograms:

**Hazard statements**

H314 Causes severe skin burns and eye damage.

according to Regulation (EC) No 1907/2006

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 2 of 11

**Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305+P351+P338 IF 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.

**2.3. Other hazards**

No data available

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Sum formula: CH3CH2CH2COOH  
Molecular weight: 88,1 g/mol

**Relevant ingredients**

| CAS No   | Chemical name                                 |              |                       | Quantity |
|----------|---|--------------|-----------------------|----------|
|          | EC No   | Index No     | REACH No              |          |
|          | Classification (Regulation (EC) No 1272/2008) |              |                       |          |
| 107-92-6 | butyric acid                                  |              |                       | 100 %    |
|          | 203-532-3                                     | 607-135-00-X | 01-2119488986-11-XXXX |          |
|          | Skin Corr. 1B; H314                           |              |                       |          |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No   | EC No  | Chemical name | Quantity |
|----------|--|---------------|----------|
|          | Specific Conc. Limits, M-factors and ATE                 |               |          |
| 107-92-6 | 203-532-3  | butyric acid  | 100 %    |
|          | dermal: LD50 = > 2000 mg/kg; oral: LD50 = ca. 1632 mg/kg |               |          |

**Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Self-protection of the first aider

**After inhalation**

Provide fresh air.  
Call a physician immediately.

**After contact with skin**

Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.  
Call a physician immediately.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 3 of 11

Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Risk of serious damage to eyes.

Irritant

corrosive

Cough

Dyspnoea

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>)

Foam

Extinguishing powder

**Unsuitable extinguishing media**

no restriction

**5.2. Special hazards arising from the substance or mixture**

Combustible liquids

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 4 of 11

**For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For containment**

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe vapour/aerosol. Provide adequate ventilation.

**Advice on protection against fire and explosion**

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat or drink.

Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

**Further information on handling**

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Store in a cool dry place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints on joint storage**

national regulations

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 5 of 11

**Further information on storage conditions**

Protect from sunlight.  
maximum storage temperature +30°C

**7.3. Specific end use(s)**

Laboratory chemicals

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL/DMEL values**

| CAS No                   | Substance    |                |          |                   |
|--------------------------|--------------|----------------|----------|-------------------|
| DNEL type                |              | Exposure route | Effect   | Value             |
| 107-92-6                 | butyric acid |                |          |                   |
| Worker DNEL, long-term   |              | inhalation     | systemic | 36,8 mg/m³        |
| Worker DNEL, long-term   |              | dermal         | systemic | 2,67 mg/kg bw/day |
| Consumer DNEL, long-term |              | inhalation     | systemic | 9,15 mg/m³        |
| Consumer DNEL, long-term |              | dermal         | systemic | 0,66 mg/kg bw/day |
| Consumer DNEL, long-term |              | oral           | systemic | 0,66 mg/kg bw/day |

**PNEC values**

| CAS No   | Substance    |  |
|--|--------------|--|
| Environmental compartment                        | Value        |  |
| 107-92-6   | butyric acid |  |
| Freshwater                                       | 0,045 mg/l   |  |
| Freshwater (intermittent releases)               | 0,451 mg/l   |  |
| Marine water                                     | 0,004 mg/l   |  |
| Freshwater sediment                              | 0,368 mg/kg  |  |
| Marine sediment                                  | 0,037 mg/kg  |  |
| Micro-organisms in sewage treatment plants (STP) | 51 mg/l      |  |
| Soil   | 0,047 mg/kg  |  |

**8.2. Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

goggles  
Face protection umbrella

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 6 of 11

supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation KCL 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation KCL 720 Camapren®

Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 mm

Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet <(>, <)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Skin protection**

Wear fire resistant or flame retardant clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device with filter or ventilator filtering device of type: ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Danger of explosion

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|   |                   |
|---|-------------------|
| Physical state:   | Liquid            |
| Colour:   | colourless        |
| Odour:  | characteristic    |
| Odour threshold:  | No data available |
| Melting point/freezing point:                             | -8 - -5 °C        |
| Boiling point or initial boiling point and boiling range: | 164 °C            |
| Flammability:   | No data available |
| Lower explosion limits:                                   | 2 vol. %          |
| Upper explosion limits:                                   | 12,3 vol. %       |
| Flash point:  | 69 °C             |
| Auto-ignition temperature:                                | 435 °C            |

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 7 of 11

|  |                        |
|--|------------------------|
| Decomposition temperature:             | No data available      |
| pH-Value (at 20 °C):                   | 2,5 (100 g/l)          |
| Viscosity / kinematic:                 | No data available      |
| Water solubility:                      | Soluble in: Water      |
| Solubility in other solvents           |                        |
| No data available                      |                        |
| Dissolution rate:                      | No data available      |
| Partition coefficient n-octanol/water: | No data available      |
| Dispersion stability:                  | No data available      |
| Vapour pressure:                       | 0,56 hPa               |
| (at 20 °C)                             |                        |
| Vapour pressure:                       | No data available      |
| Density:                               | 0,96 g/cm <sup>3</sup> |
| Relative density:                      | No data available      |
| Bulk density:                          | No data available      |
| Relative vapour density:               | No data available      |
| Particle characteristics:              | No data available      |

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Sustained combustibility:

Sustained combustibility

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

**Other safety characteristics**

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

100%

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

1,6 mPa·s

(at 20 °C)

Flow time:

No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

In case of warming:

Vapours may form explosive mixtures with air.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 8 of 11

**10.3. Possibility of hazardous reactions**

Oxidising agent  
chromium trioxide

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

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

| CAS No   | Chemical name  |                     |         |                     |                    |
|----------|----------------|---------------------|---------|---------------------|--------------------|
|          | Exposure route | Dose                | Species | Source              | Method             |
| 107-92-6 | butyric acid   |                     |         |                     |                    |
|          | oral           | LD50 ca. 1632 mg/kg | Rat     | Study report (1978) | OECD Guideline 401 |
|          | dermal         | LD50 > 2000 mg/kg   | Rat     | Study report (1978) | method: BASF test  |

**Irritation and corrosivity**

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available



**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 9 of 11

**Practical experience**

No data available

**11.2. Information on other hazards****Endocrine disrupting properties**

No data available

**Other information**

Observe risk of aspiration if vomiting occurs.

Pulmonary oedema

Pneumonia

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Inhalation effect: Damage to the respiratory tract.

**Further information**

Risk of serious damage to eyes.

Irritant

corrosive

Cough

Dyspnoea

**SECTION 12: Ecological information****12.1. Toxicity**

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

| CAS No   | Chemical name            |               |           |         |                            |  |
|----------|--------------------------|---------------|-----------|---------|----------------------------|--|
|          | Aquatic toxicity         | Dose          | [h]   [d] | Species | Source                     | Method   |
| 107-92-6 | butyric acid             |               |           |         |                            |  |
|          | Acute fish toxicity      | LC50<br>mg/l  | 66,4      | 96 h    | Pimephales<br>promelas     | REACH<br>Registration<br>Dossier   |
|          | Acute algae toxicity     | ErC50<br>mg/l | 45,1      | 72 h    | Desmodesmus<br>subspicatus | Study report<br>(1990)<br>other: German<br>industrial<br>standard test g |
|          | Acute crustacea toxicity | EC50<br>mg/l  | 51,25     | 48 h    | Daphnia magna              | Study report<br>(1989)<br>other: German<br>industrial<br>standard test g |

**12.2. Persistence and degradability**

&gt; 95 %; 5 d

Readily biodegradable (according to OECD criteria).

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

| CAS No   | Chemical name | Log Pow |
|----------|---------------|---------|
| 107-92-6 | butyric acid  | 12,6    |

**BCF**

| CAS No   | Chemical name | BCF   | Species | Source               |
|----------|---------------|-------|---------|----------------------|
| 107-92-6 | butyric acid  | 3,162 |         | Other company data ( |

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 10 of 11

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

Avoid release to the environment.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 2820      |
| <b>14.2. UN proper shipping name:</b>    | BUTYRIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8            |
| <b>14.4. Packing group:</b>              | III          |
| Hazard label:                            | 8            |
| Classification code:                     | C3           |
| Limited quantity:                        | 5 L          |
| Excepted quantity:                       | E1           |
| Transport category:                      | 3            |
| Hazard No:                               | 80           |
| Tunnel restriction code:                 | E            |

**Inland waterways transport (ADN)**

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 2820      |
| <b>14.2. UN proper shipping name:</b>    | BUTYRIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8            |
| <b>14.4. Packing group:</b>              | III          |
| Hazard label:                            | 8            |
| Classification code:                     | C3           |
| Limited quantity:                        | 5 L          |
| Excepted quantity:                       | E1           |

**Marine transport (IMDG)**

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 2820      |
| <b>14.2. UN proper shipping name:</b>    | BUTYRIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8            |
| <b>14.4. Packing group:</b>              | III          |
| Hazard label:                            | 8            |
| Special Provisions:                      | -            |
| Limited quantity:                        | 5 L          |
| Excepted quantity:                       | E1           |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**Butyric acid > 99 % (butanoic acid) technical grade**

Revision: 08.07.2025

Product code: 21747

Page 11 of 11

EmS: F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)**

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 2820      |
| <b>14.2. UN proper shipping name:</b>    | BUTYRIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8            |
| <b>14.4. Packing group:</b>              | III          |
| Hazard label:                            | 8            |
| Special Provisions:                      | A803         |
| Limited quantity Passenger:              | 1 L          |
| Passenger LQ:                            | Y841         |
| Excepted quantity:                       | E1           |
| IATA-packing instructions - Passenger:   | 852          |
| IATA-max. quantity - Passenger:          | 5 L          |
| IATA-packing instructions - Cargo:       | 856          |
| IATA-max. quantity - Cargo:              | 60 L         |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**SECTION 16: Other information****Abbreviations and acronyms**

Skin Corr. 1B: Skin corrosion, sub-category 1B

Eye Dam. 1: Serious eye damage, hazard category 1

**Relevant H and EUH statements (number and full text)**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**Further Information**

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.