

## 1-Butyl-3-methylimidazolium octanoate

Version number: GHS 2.0

Revision: 10.10.2023

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Identification of the substance | 1-Butyl-3-methylimidazolium octanoate |
| EC number                       | 956-326-7                             |
| Reference number (ECHA)         | 02-2120921220-74-0000                 |
| Alternative name(s)             | BMIM-OOc                              |
| Alternative number(s)           | 00244.3000, 00244.6010                |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                          |  |
|--------------------------|--|
| Relevant identified uses | Product and process oriented research and development<br>The product is intended for research, analysis and scientific education |
| Uses advised against     | Do not use for private purposes (household).   |
| HS code                  | 29332990.  |

#### 1.3 Details of the supplier of the safety data sheet

proionic GmbH  
Parkring 18, Trakt H/1  
A-8074 Raaba-Grambach  
Austria

Telephone: +43 (0) 316 4009-4200  
e-mail: office@proionic.com  
Website: www.proionic.com

#### 1.4

|                               |  |
|-------------------------------|--|
| Emergency information service | Mo-fr 8am-4pm (CET): +43 (0) 316/ 4009- 4200                 |
| Official advisory body        | Poisoning information center Austria:<br>+43 (0) 1 406 43 43 |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Caution! Substance not yet fully tested. Self-classification. All information refers to analogy circuits.

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class                      | Cat-egory | Hazard class and category | Hazard statement |
|---------|-----------------------------------|-----------|---------------------------|------------------|
| 3.10    | acute toxicity (oral)             | 4         | Acute Tox. 4              | H302             |
| 3.2     | skin corrosion/irritation         | 2         | Skin Irrit. 2             | H315             |
| 3.3     | serious eye damage/eye irritation | 2         | Eye Irrit. 2              | H319             |

#### Remarks

For full text of H-phrases: see SECTION 16

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## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word warning

- pictograms  
GHS07



#### - hazard statements

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

#### - precautionary statements

#### - precautionary statements

P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330 Rinse mouth.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container to industrial combustion plant.

## 2.3 Other hazards

### Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                          |   |
|--------------------------|---|
| <b>Name of substance</b> | 1-Butyl-3-methylimidazolium octanoate                         |
| <b>IUPAC name</b>        | 1-butyl-3-methylimidazol-3-ium octanoate                      |
| <b>Identifiers</b>       |   |
| <b>EC No</b>             | 956-326-7   |
| <b>Purity</b>            | >95 – <99,9 %   |
| <b>Molecular formula</b> | C <sub>16</sub> H <sub>30</sub> N <sub>2</sub> O <sub>2</sub> |
| <b>Molar mass</b>        | 282,4 g/mol   |

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air. In case of respiratory tract irritation, consult a physician.

##### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs, consult a doctor.

##### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

#### 4.2 Most important symptoms and effects, both acute and delayed

See SECTION 2.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water spray, Foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

##### Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For removal of spilled product always wear personal protective equipment.

##### For non-emergency personnel

Remove persons to safety. Provision of sufficient ventilation.

##### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

##### Advice on how to contain a spill

Covering of drains

##### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Use water for subsequent cleaning.

##### Appropriate containment techniques

Use of adsorbent materials.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

Use only in well-ventilated areas. Contaminated surfaces must not be cleaned with compressed air due to the possible formation of aerosols.

##### - measures to protect the environment

Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

##### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store upright. Keep only in the original container in a cool, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

##### Maintaining of the integrity of the substance or mixture

Keep container tightly closed and dry.

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### 7.3 Specific end use(s)

The product must be used only for the purposes specified by the manufacturer (see above).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

These information are not available.

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation. General industrial hygiene practice. Take precautions, which are usual when handling chemicals.

#### Individual protection measures (personal protective equipment)

The individual protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the handled substances.

#### Eye/face protection

Wear eye protection.

#### Skin protection

##### - hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use.

##### - other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

Respiratory protection not required.

#### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| <b>Physical state</b>   | liquid  |
| <b>Colour</b>   | colorless to yellow                                       |
| <b>Odour</b>  | characteristic  |
| <b>Melting point/freezing point</b>                             | not determined  |
| <b>Boiling point or initial boiling point and boiling range</b> | not determined  |
| <b>Flammability</b>   | this material is combustible, but will not ignite readily |
| <b>Lower and upper explosion limit</b>                          | not determined  |

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|                                  |                |
|----------------------------------|----------------|
| <b>Flash point</b>               | not determined |
| <b>Auto-ignition temperature</b> | not determined |
| <b>Decomposition temperature</b> | not relevant   |
| <b>pH (value)</b>                | not determined |

### Solubility(ies)

|                         |                                |
|-------------------------|--------------------------------|
| <b>Water solubility</b> | completely miscible with water |
|-------------------------|--------------------------------|

|                        |                |
|------------------------|----------------|
| <b>Vapour pressure</b> | not determined |
|------------------------|----------------|

### Density and/or relative density

|                                |   |
|--------------------------------|---|
| <b>Relative vapour density</b> | information on this property is not available |
|--------------------------------|---|

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Particle characteristics</b> | not relevant (liquid) |
|---------------------------------|-----------------------|

## 9.2 Other information

|   |   |
|---|---|
| <b>Information with regard to physical hazard classes</b> | hazard classes acc. to GHS (physical hazards): not relevant |
| <b>Other safety characteristics</b>                       | there is no additional information                          |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.  
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no available test data for this substance.

##### **Classification procedure**

All information refers to analogy circuits.

##### **Classification according to GHS (1272/2008/EC, CLP)**

##### **Acute toxicity**

Harmful if swallowed.

##### **Skin corrosion/irritation**

Causes skin irritation.

##### **Serious eye damage/eye irritation**

Causes serious eye irritation.

##### **Germ cell mutagenicity**

No data available.

##### **Carcinogenicity**

No data available.

##### **Reproductive toxicity**

No data available.

##### **Specific target organ toxicity - single exposure**

No data available.

##### **Specific target organ toxicity - repeated exposure**

No data available.

##### **Aspiration hazard**

Not applicable.

#### 11.2 Information on other hazards

There is no additional information.

### SECTION 12: Ecological information

#### 12.1 Toxicity

There is no ecological information for this substance.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

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### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This article should be disposed of as hazardous waste. Please do not put it in your normal household waste. Dispose of contents/container to hazardous or special waste collection point. Incineration.

### Sewage disposal-relevant information

Do not empty into drains.

### Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

|      |   |   |
|------|---|---|
| 14.1 | UN number or ID number                                  | Not subject to transport regulations                                  |
| 14.2 | UN proper shipping name                                 | not relevant  |
| 14.3 | Transport hazard class(es)                              | None  |
| 14.4 | Packing group   | Not assigned  |
| 14.5 | Environmental hazards                                   | Non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user                            | There is no additional information.                                   |
| 14.7 | Maritime transport in bulk according to IMO instruments | No data available.  |

### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Not subject to ADR, RID and ADN.

#### International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.



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### SECTION 15: Regulatory information

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

There is no additional information.

#### Additional information

Substance is listed in the following national inventories:  
C&L Inventory (Europe)

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

### SECTION 16: Other information

#### Abbreviations and acronyms

| Abbr.    | Descriptions of used abbreviations  |
|----------|---|
| ADN      | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR      | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)   |
| CLP      | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| DGR      | Dangerous Goods Regulations (see IATA/DGR)  |
| EC No    | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| EINECS   | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS   | European List of Notified Chemical Substances   |
| GHS      | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| HS       | Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  |
| IATA     | International Air Transport Association   |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO     | International Civil Aviation Organization   |
| IMDG     | International Maritime Dangerous Goods Code   |
| IUPAC    | International Union of Pure and Applied Chemistry   |
| NLP      | No-Longer Polymer   |
| PBT      | Persistent, Bioaccumulative and Toxic   |
| REACH    | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID      | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)   |
| vPvB     | Very Persistent and very Bioaccumulative  |

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### Key literature references and sources for data

#### European Union

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

#### Classification procedure

Self-classification. Data on similar substances were used.

#### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                           |
|------|--------------------------------|
| H302 | Harmful if swallowed.          |
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |

#### Disclaimer

The data contained in this safety data sheet are based on the current knowledge and experience of proionic GmbH and do not purport to be all inclusive. The safety data sheet shall be used only as a guide. The data do not describe the products properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose, except as mentioned, be deduced from the data contained in this safety data sheet. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Proionic GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.

This safety data sheet has been compiled and is solely intended for this product – it may not be valid for this product used in combination with any material or any process