

# Safety Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 7/25/2020

Date Issued: 2/16/2021

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

<b>Product name</b>	1-Butyl-3-methylimidazolium tetrafluoroborate
<b>Product code</b>	IL-0012
<b>CAS</b>	174501-65-6
<b>REACH No.</b>	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
<b>Identified uses</b>	Laboratory chemicals, Manufacture of substances
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstraße 184 D – 74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131-89839-0
<b>Fax</b>	+49 (0)7131-89839-109
<b>Emergency telephone</b>	+49 (0)176-84850874
<b>Email</b>	msds@iolitec.de

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Caution! Substance not yet fully tested. Risks cannot be excluded if the product is handled inappropriately. For laboratory use only!

# Safety Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 7/25/2020

Date Issued: 2/16/2021

---

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Substance not yet fully tested.

#### *Hazard statements*

#### **H-phrases**

Substance not yet fully tested.

#### *Precautionary statements*

#### **P phrases**

P262: Do not get in eyes, on skin, or on clothing.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P305 + P351 + P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P313: Get medical advice/attention.

#### **Hazards not otherwise classified (HNOC)**

Hazards not otherwise classified Not applicable.

#### **Other Information**

Unknown acute toxicity. 100% of the mixture consists of ingredient(s) of unknown toxicity

#### **NFPA / HMIS**



Health hazards -  
Flammability -  
Stability -  
Physical and chemical properties -

# Safety Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 7/25/2020

Date Issued: 2/16/2021

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	Contents	Health(Class)	Risk(R/No.)
1-Butyl-3-methylimidazolium tetrafluoroborate	>99%		Substance not yet fully tested!

### 4 FIRST AID MEASURES

<b>General</b>	Contaminated clothing should be removed and washed before being reused.
<b>Inhalation</b>	Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/oxygen.
<b>Ingestion</b>	Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.
<b>Skin</b>	Wash the skin immediately with soap and water.
<b>Eyes</b>	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

### 5 FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Use: Water spray, fog or mist. Carbon dioxides (CO <sub>2</sub> ). Dry chemicals, sand, dolomite etc.
<b>Special fire fighting procedures</b>	Avoid water in straight hose stream, will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.
<b>Unusual fire &amp; explosion hazards</b>	Fire causes formation of toxic gases.

# Safety Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 7/25/2020

Date Issued: 2/16/2021

---

<b>Protective measures in fire</b>	Wear self-contained breathing apparatus as combustion may produce hazardous fumes.
------------------------------------	--

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions during spill</b>	Wear protective clothing and avoid inhalation of vapor, skin or eye contact.
--	--

<b>Precautions to protect environment</b>	Avoid washing into water courses. Avoid contaminating public drains or water supply.
---	--

<b>Spill cleanup methods</b>	Avoid contact with skin or inhalation of spillage, dust or vapor. Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
------------------------------	---

### 7 HANDLING AND STORAGE

<b>Usage precautions</b>	Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator.
--------------------------	---

<b>Storage precautions</b>	Store at moderate temperatures in dry, well ventilated area.
----------------------------	--

<b>Storage criteria</b>	Chemical storage.
-------------------------	-------------------

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# Safety Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 7/25/2020

Date Issued: 2/16/2021

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid.
<b>Color</b>	Colorless to yellow.
<b>Odor/taste</b>	No characteristic odor.

## 10 STABILITY AND REACTIVITY

<b>Stability</b>	No particular stability concerns.
<b>Conditions to avoid</b>	Avoid contact to strong oxidizers and bases.
<b>Hazardous Decomposition Products</b>	High temperatures generate: Corrosive gases/ vapor/ fumes of: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Nitrous gases (NO <sub>x</sub> ). Hydrogen fluoride (HF).

# Safety Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 7/25/2020

Date Issued: 2/16/2021

### 11 TOXICOLOGICAL INFORMATION

<b>Ingestion</b>	not available.
<b>Skin</b>	not available.
<b>Eyes</b>	not available

Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.

### 12 ECOLOGICAL INFORMATION

<b>Environmental hazards</b>	Avoid washing into water courses. Avoid contaminating public drains or water supply.
------------------------------	--

### 13 DISPOSAL CONSIDERATIONS

<b>Disposal method</b>	Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.
------------------------	--

### 14 TRANSPORT INFORMATION

<b>General</b>	Not classified as dangerous for transport purposes.
<b>UN No.</b>	0
<b>Road transport notes</b>	Not classified as dangerous for road transport.
<b>Rail transport notes</b>	Not classified as dangerous for rail transport.
<b>Sea transport notes</b>	Not classified as dangerous for sea transport.
<b>Air transport notes</b>	Not classified as dangerous for air transport.

# Safety Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 7/25/2020

Date Issued: 2/16/2021

### 15 REGULATORY INFORMATION

#### Label for supply

Substance not yet fully tested.

#### P phrases

P262: Do not get in eyes, on skin, or on clothing.  
P280: Wear protective gloves/ protective clothing/  
eye protection/ face protection.

P305 + P351 + P338: IF IN EYES: Rinse continuously with water  
for several minutes. Remove contact lenses  
if present and easy to do – continue rinsing.

P313: Get medical advice/attention.

#### Country specific information

Germany WGK: 3 (Self-Classification)

### 16 OTHER INFORMATION

#### DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT  
PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE.  
IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM  
HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS  
INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND  
MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY  
OTHER MATERIALS OR ANY PROCESS. IT IS THE USER'S RESPONSIBILITY  
TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR  
HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR  
DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY  
SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY

# Safety Data Sheet

## 1-Butyl-3-methylimidazolium tetrafluoroborate

Revision Date: 7/25/2020

Date Issued: 2/16/2021

---

DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.