

according to Regulation (EC) No 1907/2006

### 1-Methyl-3-octylimidazolium tetrafluoroborate

Revision Date: 5/7/2025 Version: 4

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

1.1 Product identifier

**Product name** 1-Methyl-3-octylimidazolium tetrafluoroborate

Product code IL-0021

**CAS** 244193-52-0

**EC-Number** 801-285-1

**REACH No.** 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.

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

against

Identified uses Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

**Supplier** loLiTec

Ionic Liquids Technologies GmbH

Im Zukunftspark 9

D - 74076 Heilbronn

Germany

**Telephone** +49 (0)7131-89839-0

**Fax** +49 (0)7131-89839-109

Email msds@iolitec.de

1.4 Emergency telephone number

**Emergency telephone** +49 (0)151-41255671

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#### **2 HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

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

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

Aquatic toxicity, Chronic (Category 2)

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



### **Pictogram**

Signal word No signal word required

**H-phrases** 

H411 Toxic to aquatic life with long lasting effects.

**P-phrases** 

P202 Do not handle until all safety precautions have

been read and understood.

P262 Do not get in eyes, on skin, or on clothing.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

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P391

Collect spillage.

Reduced labelling for bottles < 125 mL (according to Art. 29.2)



**Pictogram** 

Signal word No signal word required

**H-phrases** 

No Hazard Statement required.

**P-phrases** 

P202 Do not handle until all safety precautions have

been read and understood.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated

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regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **3 COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1 Substances

1-Methyl-3-octylimidazolium tetrafluoroborate

CAS: 244193-52-0

EC-Number: 801-285-1

Ingredient name Contents Classification

1-Methyl-3-octylimidazolium tetrafluoroborate >99% Aquatic Chronic 2

### **4 FIRST AID MEASURES**

### 4.1 Description of first aid measures

#### General

Contaminated clothing should be removed and washed before being reused.

#### Inhalation

Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/oxygen. Get medical attention if you feel unwell.

### Ingestion

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.

### Skin

Wash the skin immediately with soap and water. Get medical attention if you feel unwell.

#### Eyes

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if you feel unwell.

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

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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

### **5 FIRE FIGHTING MEASURES**

### 5.1 Extinguishing media

Use: Water spray, fog or mist. Carbon dioxides (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc.

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

Fire causes formation of toxic gases

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### **6 ACCIDENTAL RELEASE MEASURES**

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

Wear protective clothing and avoid inhalation of vapor, skin or eye contact. Evacuate the danger area, observe emergency procedures

### 6.2 Environmental precautions

Avoid washing into water courses. Avoid contaminating public drains or water supply.

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

Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

#### 6.4 Reference to other sections

For disposal see section 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

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Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator.

### **Storage Conditions:**

Store at moderate temperatures in dry, well ventilated area. Chemical storage

### Storage class

(TRGS 510): LGK 10-13

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

#### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters

Ingredients with workplace control parameters

### 8.2 Exposure controls

### **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).

### 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**

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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

### 9.1 Information on basic physical and chemical properties

a) Physical state Liquid

b) Colorc) Odorc) Colorless to yellow.no characteristic odor

d) Melting point/freezing point -35°C

e) Initial boiling point no data availablef) Flammability no data available

g) Upper/lower explosive limits no data available

h) Flash point no data available

i) Autoignition temperature no data available

j) Decomposition temperature no data available

k) pH no data available

I) Viscosity, kinematic 209.76 mm<sup>2</sup>/s

m) Water solubility miscible under decomposition

n) Partition coefficient not relevant

o) Vapor pressure no data available

**p) Density** 1.106 g/cm<sup>3</sup>

q) Relative vapor density no data available
r) Particle characteristics no data available
s) Explosive properties no data available
t) Oxidizing properties no data available

#### 9.2 Other safety information

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No data available

#### **10 STABILITY AND REACTIVITY**

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No particular stability concerns.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Avoid contact to strong oxidizers and bases.

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides (CO2), Carbon monoxid (CO), Nitrogen oxides (NOx), Hydrogen fluoride (HF).

#### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on hazard classes

### **Acute toxicity**

No data available

#### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

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### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### 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**

No data available

#### Potential health effects

Inhalation No data availableIngestion No data available.Skin No data available.Eves No data available.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 11.2 Information on other hazards

### **Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605 at levels of 0.1% or higher.

#### **Additional Information**

RTECS: Not available

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#### 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

Aquatic Chronic Cat. 2

IC<sub>50</sub> (Daphnia magna): 1.3 mg/L (Green Chem, 2005, **7**, 9).

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

#### 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

Do not dispose in communal waste water.

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### 14 TRANSPORT INFORMATION

14.1 UN number

UN3082

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-Octyl-3-

methylimidazolium tetrafluoroborate)

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: Yes IMDG Marine pollutant: Yes IATA: Yes

14.6 Special precautions for user

No data available

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#### 15 REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

no data available

### Country specific information

**Germany** WGK: 3 (Self-Classification)

#### **16 OTHER INFORMATION**

#### **DISCLAIMER**

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