

# 1-Butyl-4-methylpyridinium tetrafluoroborate

Revision Date: 12/06/2010 Date Issued: 12/12/2017

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

**Product name** 1-Butyl-4-methylpyridinium tetrafluoroborate

Product code IL-0085

**CAS** 343952-33-0

**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.

Identified uses Laboratory chemicals, Manufacture of substances

Supplier IoLiTec

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#### 2 HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture Classification (REGULTATION (EC) No 1272/2008)

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

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# Classification (67/548/EEC or 1999/45/EC)

Harmful if swallowed. Irritating to eyes and skin.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Pictogram

 $\langle ! \rangle$ 

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Supplemental Hazard Statements none

### Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s)



R-phrase(s)

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

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S-phrase(s)

S26 In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

Caution - substance not yet tested completely.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name Contents Health(Class) Risk(R/No.)

1-Butyl-4-methylpyridinium tetrafluoroborate >99% Substance not yet fully tested!

**4 FIRST AID MEASURES** 

General Contaminated clothing should be removed and

washed before being reused.

**Inhalation** Move the exposed person to fresh air at once.

f respiratory problems, provide artificial

respiration/oxygen.

**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.

**Eyes** 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.

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#### **5 FIRE FIGHTING MEASURES**

**Extinguishing media** Use: Water spray, fog or mist. Carbon dioxides

(CO<sub>2</sub>). Dry chemicals, sand, dolomite etc.

**Special fire fighting procedures** 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.

**Unusual fire & explosion hazards** 

Protective measures in fire

Fire causes formation of toxic gases.

Wear self-contained breathing apparatus as

combustion may produce hazardous fumes.

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

**Personal precautions during spill** Wear protective clothing and avoid inhalation of

vapor, skin or eye contact.

**Precautions to protect** 

**environment** Avoid washing into water courses. Avoid

contaminating public drains or water supply.

**Spill cleanup methods** 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.

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#### 7 HANDLING AND STORAGE

**Usage precautions** Keep away from heat, sparks and open flame.

Do not use in confined spaces without

adequate ventilation and/or respirator.

Storage precautions Store at moderate temperatures in dry, well

ventilated area.

**Storage criteria** 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).

#### 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).

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid.

ColorColorless to orange.Odor/tasteNo characteristic odor.

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

**Stability** No particular stability concerns.

**Conditions to avoid** Avoid contact to strong oxidizers and bases.

**Hazardous** 

**Decomposition Products** High temperatures generate: Corrosive

gases/vapor/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NOx).

Hydrogen fluoride (HF).

#### 11 TOXICOLOGICAL INFORMATION

#### **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

### 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.

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# Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

**Aspiration hazard** 

no data available

Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** Harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes serious eye irritation.

**Additional Information** 

RTECS: Not available

#### 12 ECOLOGICAL INFORMATION

**Environmental hazards** Avoid washing into water courses. Avoid

contaminating public drains or water supply.

#### 13 DISPOSAL CONSIDERATIONS

**Disposal method**Contact specialist disposal companies. Dispose

of in accordance with Local Authority requirements. Recover and reclaim or recycle,

if practical.

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### 14 TRANSPORT INFORMATION

**General** Not classified as dangerous for transport

purposes.

**UN No.** 0

Road transport notes

Rail transport notes

Not classified as dangerous for road transport.

Not classified as dangerous for rail transport.

Sea transport notes

Not classified as dangerous for sea transport.

Not classified as dangerous for air transport.

### 15 REGULATORY INFORMATION

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

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

no data available

**Chemical Safety Assessment** 

no data available

**Country specific information** 

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

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#### **16 OTHER INFORMATION**

#### **DISCLAIMER**

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