

according to Regulation (EC) No 1907/2006

1-Butylimidazole

Revision Date: 9/22/2022

Date Issued: 9/22/2022 Version: 2

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

1.1 Product identifier

Product name 1-Butylimidazole

Product code KI-0004

**CAS** 4316-42-1

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

Skin corrosion/irritation, Category 2, H315

Serious eye damage/Eye irritation, Category 2, H319

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation, Category 3, H335

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

**Pictograms:** 

Signal word: Danger

H-phrases

H315: Causes skin irritation.

H318: Causes serious eye damage.
H335: May cause respiratory irritation.

**P-phrases** 

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/

spray.

P280: Wear protective gloves/ protective clothing/

eye protection/ face 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.

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#### 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.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

1-Butylimidazole CAS: 4316-42-1

Ingredient nameContentsClassification1-Butylimidazole>98%Eye Irri. 2; Skin Corr. 2; STOT 3

#### **4 FIRST AID MEASURES**

### 4.1 Description of first aid measures

## **General**

Consult a physician. Show this safety data sheet to the doctor in attendance.

### Inhalation

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

### Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Skin

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### **Eyes**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

The most important known symptoms and effects are described in the labelling (see

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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, alcohol-resistant foam, dry chemical or carbon dioxide.

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

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. Vapours may form explosive mixture with air.

## 5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting 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. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 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

Avoid contact with skin or inhalation of spillage, dust or vapor. Avoid dust formation. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

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#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas.

## 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 goggles. Chemical resident gloves. Protective clothing.

#### 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.

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## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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

Appearance Liquid

**Color** Colourless to yellow

**Initial boiling point** 114 - 116 °C at 16 hPa - lit.

Relative density 0.945 g/cm<sup>3</sup> at 25 °C

9.2 Other safety information

No data available

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

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

Avoid contact to acids and strong oxidizers.

### 10.5 Incompatible materials

Strong oxidizing agents

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## 10.6 Hazardous decomposition products

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

#### 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

## 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

Inhalation - May cause respiratory irritation.

## Specific target organ toxicity - repeated exposure

no data available

## **Aspiration hazard**

no data available

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## 11.2 Information on other hazards

## Potential health effects

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

**Ingestion** May be harmful if swallowed.

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

**Eyes** Causes serious eye irritation.

## Signs and Symptoms of Exposure

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

#### **Additional Information**

RTECS: Not available

#### 12 ECOLOGICAL INFORMATION

#### **12.1 Toxicity**

No data available

## 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 Other adverse effects

No data available

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#### 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.

## 14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 2690 IMDG: 2690 IATA: 2690

14.2 UN proper shipping name

ADR/RID: N,n-Butylimidazole IMDG: N,n-Butylimidazole IATA: N,n-Butylimidazole

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

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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: 2 (Self-Classification)

#### **16 OTHER INFORMATION**

## **DISCLAIMER**

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