

# Safety Data Sheet

## 1-Butylimidazole

Revision Date: 02/25/2015

Date Issued: 2/21/2018

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

<b>Product name</b>	1-Butylimidazole
<b>Product code</b>	KI-0004
<b>CAS</b>	4316-42-1
<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 (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

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

Xi, R36/37/38 Irritant to eyes, respiratory system and skin

### 2.2 Label elements

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



Signal word: **Danger**

#### Hazard statements

#### H-phrases

H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H335: May cause respiratory irritation.

#### Precautionary statements

#### 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.

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



Xi

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### Risk phrases

R36/37/38: Irritating to eyes, respiratory system and skin.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	Contents	Health(Class)	Risk(R/No.)
1-Butylimidazole	>98%	Xi, GHS07	H 315, H319, H335 R 22, R 34 , R 52/53

### 4 FIRST AID MEASURES

<b>General</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Skin</b>	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
<b>Eyes</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### 5 FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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<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>	Vapours may form explosive mixture with air.
<b>Protective measures in fire</b>	Wear self contained breathing apparatus for fire fighting if necessary.

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions during spill</b>	Wear protective clothing and avoid inhalation of vapor, skin or eye contact. Ensure adequate ventilation. Evacuate personnel to safe areas.
<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. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 7 HANDLING AND STORAGE

<b>Handling</b>	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.
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### Storage

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.

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Protective equipment

Safety goggles. Chemical resistant gloves. Protective clothing.

### Process control measures

Provide eyewash station and safety shower. Use engineering controls to reduce air contamination to permissible exposure levels.

### Ventilation

Provide adequate general and local exhaust ventilation.

### Respirators

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).

### Other protection

Wear overalls and industrial shoes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid
<b>Color</b>	Colourless to yellow
<b>Initial boiling point</b>	114 - 116 °C at 16 hPa - lit.
<b>Relative density</b>	0.945 g/cm <sup>3</sup> at 25 °C

### 10 STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Avoid contact to acids and strong oxidizers.
<b>Hazardous</b>	
<b>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> ).

### 11 TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	
<b>Irritation and corrosion</b>	no data available
<b>Sensitisation</b>	no data available
<b>Chronic exposure</b>	no data available
<b>Genotoxicity in vitro</b>	no data available

### 12 ECOLOGICAL INFORMATION

<b>Elimination information (persistence and degradability)</b>	no data available
<b>Ecotoxicity effects</b>	no data available

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<b>Environmental hazards</b>	Avoid washing into water courses. Avoid contaminating public drains or water supply.
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### 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.
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### 14 TRANSPORT INFORMATION

<b>UN No.</b>	UN 2690
<b>Road/Rail transport notes</b>	UN-Number: 2690 Class: 6.1 PG: II Proper shipping name: N,n-Butylimidazole
<b>Sea transport notes</b>	UN-Number: 2690 Class: 6.1 PG: II Proper shipping name: N,n-Butylimidazole Marine pollutant: No
<b>Air transport notes</b>	UN-Number: 2690 Class: 6.1 PG: II Proper shipping name: N,n-Butylimidazole

### 15 REGULATORY INFORMATION

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

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

German Regulation VwVwS (Self-assessment):  
Water hazard class 2 (WGK2): hazard to waters. Do not allow to enter waters, waste water, or soil.

#### 15.2 Chemical Safety Assessment

no data available

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### 16 OTHER INFORMATION

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