

according to Regulation (EC) No 1907/2006 1-Methylbenzimidazole

Revision Date:	9/23/2022
Date Issued:	5/27/2025

Version: 2

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

1.1 Product identifier		
Product name	1-Methylbenzimidazole	
Product code	KI-0050	
CAS	1632-83-3	
EC-Number	605-321-5	
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	IoLiTec	
	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 num	ber	
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)
Acute toxicity, Oral (Category 4)
Skin corrosion (Category 1B)
Eye damage (Category 1)
Carcinogenic (Category 1B)
Mutagenic (Category 2)
Hazardous to the aquatic environment, Chronic hazard (Category 3)

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Causes severe skin burns and eye damage.

Hazardous to aquatic life with long lasting

Suspected of causing genetic defects.

Pictogram

Signal word

H-phrases

H302 H314

H341

H350

H412

Danger

effects.

Harmful if swallowed.

May cause cancer.

KI-0050		



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P-phrases		
P201		Obtain special instructions before use.
P202		Do not handle until all safety precautions have
		been read and understood.
P260		Do not breathe dust / fume / gas / mist /
		vapours / spray.
P264		Wash skin thoroughly after handling.
P270		Do not eat, drink or smoke when using this
		product.
P273		Avoid release to the environment.
P280		Wear protective gloves/protective clothing/eye
		protection/face protection.
P301 + P330 + P	<b>'</b> 331	IF SWALLOWED: Rinse mouth. Do NOT
		induce vomiting.
P303 + P361 + P	2353	IF ON SKIN (or hair): Remove/Take off
		immediately all contaminated clothing. Rinse
		skin with water.
P304 + P340		IF INHALED: Remove victim to fresh air and
		keep at rest in a position comfortable for
		breathing.
P305 + P351 + P	2338	IF IN EYES: Rinse continuously with water for
		several minutes. Remove contact lenses if
		present and easy to do. Continue rinsing.
P310		Immediately call a POISON CENTER or
		doctor/physician.
P363		Wash contaminated clothing before reuse.
P405		Store locked up.

### 2.3 Other hazards



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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 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-Methylbenzimidazole CAS: 1632-83-3 EC-Number: 605-321-5 Ingredient name Contents Classification 1-Methylbenzimidazole 98% Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 3 Dimethylsulfat <1% Acute Tox. 2, Skin Corr. 1B, Skin Sens. 1, Muta. 2, Carc. 1B



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### 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

### General

Contaminated clothing should be removed and washed before being reused. Get medical attention if exposed or concerned.

#### Inhalation

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

#### Ingestion

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

#### Skin

Immediately remove all contaminated clothing. Wash the skin immediately with soap and water. Get medical attention.

### 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.

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

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.



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### 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. Fire causes formation of toxic gases.

### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

### 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.

### 6.2 Environmental precautions

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

### Avoid release to the environment.

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

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.

### 6.4 Reference to other sections

For disposal see section 13.

### 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

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

### 7.2 Conditions for safe storage, including any incompatibilities

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



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### Storage class (TRGS 510): LGK 8A

### 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**

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

9.1 Information on basic physical and chemical properties

a)	Physical state	solid
b)	Color	Colourless to yellow
c)	Odor	no characteristic odor
d)	Melting point/freezing point	no data available
e)	Initial boiling point	no data available
<b>f)</b>	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)	рН	no data available
I)	Viscosity, kinematic	no data available
m)	Water solubility	no data available
n)	Partition coefficient	no data available
<b>o</b> )	Vapor pressure	no data available
<b>p)</b>	Density	no data available
q)	Relative vapor density	no data available
<b>r)</b>	Particle characteristics	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available
9.2 O	ther safety information	

No data available



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### **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 and bases.

### **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

Acute Toxicity, Oral (Cat. 4) Acute Toxicity, Dermal – no data available Acute Toxicity, Inhalation – no data available **Skin corrosion/irritation** Skin Corrosion (Cat. 1B) **Serious eye damage/eye irritation** Eye Damage (Cat. 1) **Respiratory or skin sensitization** No data available



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### Germ cell mutagenicity

Mutagenic (Cat. 2)

#### Carcinogenicity

Carcinogenic (Cat. 1B)

**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 available

- **Ingestion** Harmful if swallowed.
- Skin Causes severe skin burns.

**Eyes** Causes serious eye damage.

### 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**

No additional information available.



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### **12 ECOLOGICAL INFORMATION**

### 12.1 Toxicity

Hazardous to the aquatic environment, Chronic (Cat. 3)

### 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



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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. Do not dispose in communal waste water.

### **14 TRANSPORT INFORMATION**

14.1 UN number				
UN3267				
14.2 UN proper shipping name				
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1-Octylbenzimidazole)				
14.3 Transport hazard class(es)				
ADR/RID: 8	IMDG: 8	IATA: 8		
14.4 Packaging group				
ADR/RID: II	IMDG: II	IATA: II		
14.5 Environmental hazards				
ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
14.6 Special precautions for user				
No data available				

### **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.



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### 15.2 Chemical safety assessment

no data available

### **Country specific information**

Germany

WGK: 3

(Self-Classification)

**16 OTHER INFORMATION** 

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