

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025 Version: 3

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

1.1 Product identifier

Product name 1-Methylimidazole

Product code KI-0017

**CAS** 616-47-7

**EC-Number** 210-484-7

**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)

Acute Toxicity, Oral (Category 4)

Acute Toxicity, Dermal (Category 3)

Skin Corrosion (Category 1B)

Eye Damage (Category 1)

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



# **Pictogram**

Signal word	Danger

**H-phrases** 

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

**P-phrases** 

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.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 + P312	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse
P304 + P340	skin with water.  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
P305 + P351 + P338	breathing.  IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if
P310	present and easy to do. Continue rinsing.  Immediately call a POISON CENTER or doctor/physician.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P405	Store locked up.

#### 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.

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# 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-Methylimidazole

**CAS**: 616-47-7

**EC-Number:** 210-484-7

Ingredient nameContentsClassification1-Methylimidazole>98%Acute Tox. 3, Skin Corr. 1B,

Eye Dam. 1

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

# 4.1 Description of first aid measures

#### General

Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTER or doctor/physician.

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory problems, provide artificial respiration/oxygen. Get medical attention.

# Ingestion

Rinse mouth. Do NOT induce vomiting. Get medical attention.

# Skin

Remove/Take off immediately all contaminated clothing. Rinse skin immediately with soap and water. Get medical attention immediately.

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#### **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.

# 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.

# 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.

6.3 Methods and materials for containment and cleaning up

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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.

Storage class (TRGS 510): 6.1C

# 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

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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).

# 9 PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a) Appearance Liquid

b) Color Colorless to orange

c) Odor/taste No characteristic odor.

d) Melting point/freezing point -6 °C

e) Initial boiling point 198 °C

f) Flammability flammable

g) Upper/lower explosive limits no data available

h) Flash point 91 °C

i) Autoignition temperature no data available
 j) Decomposition temperature no data available
 k) pH no data available
 l) Viscosity, kinematic no data available

m) Water solubility soluble

n) Partition coefficient no data available

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o) Vapor pressure 0.4 hPa

**p) Density** 1.03 g/cm<sup>3</sup>

q) Relative vapor density no data available

r) Particle characteristics not relevant

s) Explosive properties not relevant

t) Oxidizing properties not relevant

# 9.2 Other safety information

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, acids and strong alkylating agents.

# 10.5 Incompatible materials

Strong oxidizing agents, acids and strong alkylating agents.

# 10.6 Hazardous decomposition products

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

Carbon monoxide (CO). Nitrous oxides (NOx).

# 11 TOXICOLOGICAL INFORMATION

# 11.1 Information on hazard classes

# **Acute toxicity**

Acute Toxicity, Oral (Cat. 4)

Acute Toxicity, Dermal (Cat.3)

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Acute Toxicity, Inhalation - not classified

Skin corrosion/irritation

Skin Corrosion (Cat. 1B)

Serious eye damage/eye irritation

Eye Damage (Cat. 1)

Respiratory or skin sensitization

No data available

**Germ cell mutagenicity** 

Not classified

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Not classified

Specific target organ toxicity - repeated exposure

Not classified

**Aspiration hazard** 

Not classified

Potential health effects

Inhalation Not classified

**Ingestion** Harmful if swallowed.

**Skin** Toxic in contact with 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** 

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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.

# 12 ECOLOGICAL INFORMATION

# 12.1 Toxicity

Not classified

# 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

No data available

# 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

UN2922

# 14.2 UN proper shipping name

CORROSIVE LIQUID, TOXIC, N.O.S. (1-Methylimidazole)

# 14.3 Transport hazard class(es)

ADR/RID: 8 (6.1) IMDG: 8 (6.1) IATA: 8 (6.1)

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.

# 15.2 Chemical safety assessment

no data available

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**Country specific information** 

**Germany** WGK: 1 (Self-Classification)

#### **16 OTHER INFORMATION**

### **DISCLAIMER**

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