

Safety Data Sheet

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 IoLiTec

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1.4 Emergency telephone number

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ROCO

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Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

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 skin with water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	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.
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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

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 name	Contents	Classification
1-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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

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 (CO₂). 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

o) Vapor pressure	0.4 hPa
p) Density	1.03 g/cm ³
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 (CO₂).
Carbon monoxide (CO). Nitrous oxides (NO_x).

11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes

Acute toxicity

Acute Toxicity, Oral (Cat. 4)

Acute Toxicity, Dermal (Cat.3)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methylimidazole

Revision Date: 5/23/2025

Version: 3

Country specific information

Germany

WGK: 1

(Self-Classification)

16 OTHER INFORMATION

DISCLAIMER

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