

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 5/26/2025

Version: 3

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

1.1 Product identifier

| | |
|--------------|---|
| Product name | Imidazole |
| Product code | KI-0035 |
| CAS | 288-32-4 |
| EC-Number | 206-019-2 |
| List-Number | 613-319-00-0 |
| 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 number

| | |
|---------------------|---------------------|
| Emergency telephone | +49 (0)151-41255671 |
|---------------------|---------------------|

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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Oral (Category 4)

Skin corrosion (Category 1C)

Eye Damage (Category 1)

Reproductive toxicity (Category 1B) – May damage the unborn child.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Pictogram

Signal word

Danger

Additional labeling element

Restricted for professional users.

H-phrases

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H360D

May damage the unborn child.

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.

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| | |
|--------------------|---|
| P264 | Wash skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| 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. |
| P363 | Wash contaminated clothing 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

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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

Imidazole

CAS: 288-32-4

EC-Number: 206-019-2

List-Number: 613-319-00-0

| Ingredient name | Contents | Classification |
|-----------------|----------|---|
| 1-H-Imidazole | >98% | Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Repr. 1B |

4 FIRST AID MEASURES

4.1 Description of first aid measures

General

Get medical attention immediately. 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
Get medical attention.

Ingestion

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

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Skin

Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Get medical attention immediately.

Eyes

Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. 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 (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. Vapours may form explosive mixture with air.

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

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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.

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

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Chemical storage. [Store locked up.](#)

[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

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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).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---------------------------------|-------------------|
| a) Appearance | solid |
| b) Color | white |
| c) Odor/taste | No data available |
| d) Melting point/freezing point | 88 – 91 °C |
| e) Initial boiling point | 256 °C |
| f) Flammability | no data available |
| g) Upper/lower explosive limits | no data available |
| h) Flash point | 145 °C |
| i) Autoignition temperature | 480 °C |
| j) Decomposition temperature | no data available |
| k) pH | no data available |
| l) Viscosity, kinematic | no data available |

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| | |
|-----------------------------|-------------------------|
| m) Water solubility | 6.8 g/L (20 °C) |
| n) Partition coefficient | no data available |
| o) Vapor pressure | 0.003 hPa (20 °C) |
| p) Density | 1.030 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

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents and acids.

10.6 Hazardous decomposition products

High temperatures generate: Corrosive gases/vapor/fumes of: Carbon dioxide (CO₂).
Carbon monoxide (CO). Nitrous gases (NO_x).

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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. 1C)

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

Reproductive toxicity (Cat. 1B) – Unborn child

Specific target organ toxicity - single exposure

Not classified

Specific target organ toxicity - repeated exposure

Not classified

Aspiration hazard

not classified

Potential health effects

Inhalation No data available.

Ingestion Harmful if swallowed.

Skin Causes severe skin burns.

Eyes Causes serious eye damage.

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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

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

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

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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

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

ADR/RID: 3263

IMDG: 3263

IATA: 3263

14.2 UN proper shipping name

ADR/RID: Corrosive solid, basic, organic, n.o.s. (Imidazole)

IMDG: Corrosive solid, basic, organic, n.o.s. (Imidazole)

IATA: Corrosive solid, basic, organic, n.o.s. (Imidazole)

14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

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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: 1

(Self-Classification)

16 OTHER INFORMATION

DISCLAIMER

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