

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

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
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
----------------------------	---------------------

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

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 1B)

Reproductive toxicity (Category 1B)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Pictograms:



Signal word:

Danger

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.

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.

P310

Immediately call a POISON CENTER or doctor/
physician.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Imidazole

CAS: 288-32-4

Ingredient name	Contents	Classification
1-H-Imidazole	>98%	Repr. Tox. 1B; Acute Tox oral. 4; Skin Corr. 1B;

4 FIRST AID MEASURES

4.1 Description of first aid measures

General

Consult a physician. 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

Consult a physician.

Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

Skin

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

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.

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).

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid
Color	white
Odor/taste	No data available

9.2 Other safety information

Melting point	88-91 °C
Boiling point	256 °C
Flash point	145 °C - closed cup
Ignition temperature	480 °C
Lower explosion limit	n/a
Upper explosion limit	n/a
Vapour pressure	0.003 hPa at 20 °C
Density	1.030 g/cm ³ at 20 °C
Water solubility	6.8g/L at 20 °C

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

Avoid contact to acids and strong oxidizers.

10.5 Incompatible materials

Strong oxidizing agents

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

10.6 Hazardous decomposition products

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

11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes

Acute toxicity

LD50 Oral - rat - 220 mg/kg

Skin corrosion/irritation

Skin - rabbit - Severe skin irritation

Serious eye damage/eye irritation

Eyes - rabbit – n/a

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

11.2 Information on other hazards

Potential health effects

Inhalation

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed. Causes burns.

Skin

May be harmful if absorbed through skin. Causes skin burns.

Eyes

Causes eye burns.

Signs and Symptoms of Exposure

no data available

Additional Information

RTECS: Not available

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic effects on fish and plankton and other aquatic invertebrates: (EC50 - Daphnia magna (Water flea) - 3415 mg/l - 48 h

12.2 Persistence and degradability

Biodegradability aerobic, 86% -readily biodegradable

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 Other adverse effects

No data available

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

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.

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: 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Imidazole

Revision Date: 9/23/2022

Date Issued: 9/23/2022

Version: 2

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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.