

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.11.2020

Version number 5

Revision: 04.11.2020

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Imidazole

Article number: 26081

CAS Number:

288-32-4

EC number:

206-019-2

Index number:

613-319-00-0

#### Registration number

A REACH Registration Number is not available for this product as the product or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, 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

No further relevant information available.

Application of the substance / the mixture Laboratory chemicals

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

SERVA Electrophoresis GmbH

Carl-Benz-Str. 7

D-69115 Heidelberg

Tel.: +49 6221 13840-0

FAX: +49 6221 13840-10

msds.info@serva.de

Information department: Product Safety department Tel.: +49 6221 13840-35

#### 1.4 Emergency telephone number:

Medical Emergency Information in case of poisoning:

Poison Information Center Mainz - Phone: +49 (0) 6131 19240

(advisory service in German or English language)



### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08

Repr. 1B H360D May damage the unborn child.



GHS05

Skin Corr. 1C H314 Causes severe skin burns and eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.11.2020

Version number 5

Revision: 04.11.2020

**Trade name: Imidazole**

(Contd. of page 1)

- **Hazard pictograms** GHS05, GHS07, GHS08
- **Signal word** Danger
- **Hazard statements**
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H360D May damage the unborn child.
- **Precautionary statements**
  - P201 Obtain special instructions before use.
  - P264 Wash thoroughly after handling.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **Labelling of packages where the contents do not exceed 125 ml**
- **Hazard pictograms** GHS05, GHS07, GHS08
- **Signal word** Danger
- **Hazard statements**
  - H314 Causes severe skin burns and eye damage.
  - H360D May damage the unborn child.
- **Precautionary statements**
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** PBT - assessment not available.
- **vPvB:** vPvB - assessment not available.

### SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description:**
  - 288-32-4 imidazole
- **Identification number(s):**
- **EC number:** 206-019-2
- **Index number:** 613-319-00-0
- **Description:**
- **Empirical formula:** C<sub>3</sub>H<sub>4</sub>N<sub>2</sub>
- **MW:** 68.08

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Remove contaminated clothing.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**
  - Immediate wash with copious amounts of water and soap; rinse thoroughly; seek medical advice.
- **After eye contact**
  - Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.
- **After swallowing**
  - Wash out mouth. Call a doctor immediately.

(Contd. on page 3)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.11.2020

Version number 5

Revision: 04.11.2020

**Trade name: Imidazole**

(Contd. of page 2)

*Do not induce vomiting!*

- **4.2 Most important symptoms and effects, both acute and delayed**

*No further relevant information available.*

- **4.3 Indication of any immediate medical attention and special treatment needed**

*No further relevant information available.*

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents**

*CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

- **5.2 Special hazards arising from the substance or mixture**

*In case of fire, the following can be formed, but not limited to:**Nitrogen oxides (NO<sub>x</sub>)**Carbon monoxide and carbon dioxide*

- **5.3 Advice for firefighters**

- **Protective equipment:** *Wear self-contained respiratory protective device.*

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

*Ensure adequate ventilation**Wear protective clothing.*

- **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*

- **6.3 Methods and material for containment and cleaning up:**

*Dispose contaminated material as waste according to item 13.**Pick up mechanically.*

- **6.4 Reference to other sections**

*See Section 7 for information on safe handling**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.*

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

*Avoid contact with eyes and skin.**Open and handle receptacle with care.*

- **Information about protection against explosions and fires:** *Keep respiratory protective device available.*

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage**

*Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.*

- **Information about storage in one common storage facility:**

*Do not store together with strong oxidizing agents.*

- **Further information about storage conditions:** *Keep receptacle tightly sealed and store in dry conditions.*

- **7.3 Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** *No further data; see item 7.*

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:** *Not required.*

- **Additional information:** *The lists that were valid during the creation were used as basis.*

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.11.2020

Version number 5

Revision: 04.11.2020

**Trade name: Imidazole**

(Contd. of page 3)

- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
 Keep away from foodstuffs, beverages and feed.  
 Store protective clothing separately.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.
- **Breathing equipment:**  
 Short term filter device:  
 Filter P2.
- **Protection of hands:**  
 Neoprene gloves  
 Rubber gloves  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Protective gloves.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**  
 Natural rubber, NR  
 Nitrile rubber, NBR
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Protective work clothing.

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### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	flakes or crystals
<b>Colour:</b>	white to cream colored
<b>Odour:</b>	Amine-like
<b>Odour threshold:</b>	Not determined.
- **Change in condition**

<b>Melting point/freezing point:</b>	89-91 °C
<b>Initial boiling point and boiling range:</b>	~256 °C
- **Flash point:** Not applicable
- **Flammability (solid, gaseous)** Product is not flammable.
- **Decomposition temperature:** Not determined.
- **Self igniting:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**

<b>Lower:</b>	Not determined.
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(Contd. on page 5)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.11.2020

Version number 5

Revision: 04.11.2020

**Trade name: Imidazole**

(Contd. of page 4)

<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density:</b>	Not determined
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water at 20 °C:</b>	~600 g/l
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
dynamic:	Not applicable.
kinematic:	Not applicable.
· <b>9.2 Other information</b>	There are no more data available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant informations available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No further relevant informations available.
- **10.4 Conditions to avoid high temperatures**
- **10.5 Incompatible materials:**  
Avoid contact with:  
Oxidizers  
Strong acids
- **10.6 Hazardous decomposition products:** In case of fire: See Section 5

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity**  
Harmful if swallowed.
  - **LD/LC50 values that are relevant for classification:**
- |      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 970 mg/kg (rat) |
|------|------|-----------------|
- **Primary irritant effect:**
  - **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
  - **Serious eye damage/irritation**  
Causes severe skin burns and eye damage.
  - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
  - **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity**  
May damage the unborn child.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.

GB

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.11.2020

Version number 5

Revision: 04.11.2020

Trade name: Imidazole

(Contd. of page 5)

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

EC50/48h 341.5 mg/l (*Daphnia magna*)EC50/72h 130 mg/l (*Scenedesmus subspicatus*)

#### · 12.2 Persistence and degradability biodegradable

#### · 12.3 Bioaccumulative potential No further relevant information available.

#### · 12.4 Mobility in soil No further relevant information available.

#### · Additional ecological information:

##### · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.

#### · 12.5 Results of PBT and vPvB assessment

##### · PBT: PBT - assessment not available.

##### · vPvB: vPvB - assessment not available.

#### · 12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

##### · Uncleaned packagings:

##### · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

##### · Recommended cleansing agent: Water, if necessary with cleansing agents.

### SECTION 14: Transport information

#### · 14.1 UN-Number

ADR, IMDG, IATA UN3263

#### · 14.2 UN proper shipping name

ADR 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (imidazole)

IMDG, IATA CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (imidazole)

#### · 14.3 Transport hazard class(es)

##### · ADR, IMDG, IATA



Class 8 Corrosive substances.

Label 8

#### · 14.4 Packing group

ADR, IMDG, IATA III

(Contd. on page 7)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.11.2020

Version number 5

Revision: 04.11.2020

**Trade name: Imidazole**

(Contd. of page 6)

· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
· <b>Hazard identification number (Kemler code):</b>	80
· <b>EMS Number:</b>	F-A,S-B
· <b>Segregation groups</b>	Alkalies
· <b>Stowage Category</b>	A
· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (IMIDAZOLE), 8, III

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### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 30
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
Substance is not listed.
- **National regulations**
- **Water hazard class:** Water hazard class 2 (Assessment by list): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department
- **Contact:** +49 6221 13840-35
- **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
PBT: persistent, bioaccumulative, toxic substance (REACH)  
vPvB: very persistent, very bioaccumulative substance (REACH)

(Contd. on page 8)

GB

**Safety data sheet**  
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**Trade name: Imidazole**

(Contd. of page 7)

*REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals**CLP: Regulation on classification, labelling and packaging of substances and mixtures**bw: body weight**ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity - oral – Category 4**Skin Corr. 1C: Skin corrosion/irritation – Category 1C**Repr. 1B: Reproductive toxicity – Category 1B*

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