

## 5 M Imidazole Solution

**5IMZ**

### SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product identifier

Identification of the product : Liquid  
Product code : 5IMZ  
Trade name : 5M Imidazole Solution

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : For research purposes only

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

Company identification : Formedium Ltd.  
King's Lynn, England, PE31 6DJ  
Tel: +44(0)1485 609069  
Web: [www.Formedium.com](http://www.Formedium.com), E-mail: [info@formedium.com](mailto:info@formedium.com)

#### 1.4. Emergency telephone number

Emergency phone Number : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)  
National Poison Information Centre :Europe UK : +44 0845 4647 (this service is only available to health professionals)  
See [www.toxbase.org](http://www.toxbase.org) for a local poison centre

### SECTION 2 Hazards Identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation ( EC ) 1272/2008

Physical hazards: H302: Harmful if swallowed.  
Health hazards: H314; Causes severe skin burns & eye damage  
H360D: May damage the unborn child  
Environmental hazards: Not classified  
Hazard Statements: H360FD – May damage fertility.


**Signal Word: DANGER**

**CORROSIVE**

#### 2.2. Label elements

##### Labelling according to Regulation EC 1272/2008

Signal Word Danger  
Hazard Statement H302 – Harmful if swallowed  
H314 – Causes severe skin burns and eye damage  
H360D – May damage unborn child

Precautionary Statements: P308 + P313 – IF exposed or concerned: Get medical advice/attention.  
P201 – Obtain special instructions before use.  
P280 – Wear protective gloves/protective clothing/eye protection/face protection  
P301 + P312 IF SWALLOWED: Call POISON CENTRE if unwell.  
P303 + P361 + P353 – If on Skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 – If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call Poison Centre  
P305 + P351 + P338 – If in Eyes; Rinse cautiously with water for several minutes. Remove any contact lenses, if present and easy to do so. Continue rinsing.

Do not handle until all safety precautions have been read and understood

## TBE Buffer 10X

## 5IMZ

### SECTION 2 Hazards Identification (Continued)

#### Principle Routes of Exposure / Potential Health Effects

|                   |                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Irritating to eyes.                                                                                          |
| <b>Skin</b>       | Irritating to skin.                                                                                          |
| <b>Inhalation</b> | Irritating to respiratory system.                                                                            |
| <b>Ingestion</b>  | May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting or diarrhoea. |

#### Specific Effects

|                              |                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------|
| <b>Carcinogenic effects</b>  | None                                                                                         |
| <b>Mutagenic effects</b>     | None                                                                                         |
| <b>Reproductive toxicity</b> | May cause adverse reproductive effects – such as birth defects, miscarriages or infertility. |
| <b>Sensitisation</b>         | None                                                                                         |
| <b>Target Organ Effects</b>  | None under normal conditions.                                                                |

### SECTION 3 Composition / Information on Ingredients

**Chemical characterization** : Mixtures

| Component: | CAS No.    | EINECS    | Classification                                                           |
|------------|------------|-----------|--------------------------------------------------------------------------|
| Imidazole  | 10043-35-3 | 233-139-2 | Repr. 1B, H360; Skin irrit. 2, H315; Eye irrit. 2, H319; STOT SE 3, H335 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4 First Aid Measures

#### 4.1. Description of first aid measures

|                            |                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | : Notes to physician :- Treat symptomatically.                                                                                                                                           |
| <b>Inhalation</b>          | : Remove to fresh air. If not breathing, give artificial respiration. Call a doctor or poison centre immediately.                                                                        |
| <b>Skin contact</b>        | : Wash off with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before re-use. Immediate medical attention is required.                          |
| <b>Eye contact</b>         | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.<br>Remove contact lenses, if present and easy to do. |
| <b>Ingestion</b>           | : Call a doctor or poison centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.                                      |

**5 M Imidazole Solution****5IMZ****SECTION 5 Fire-fighting Measures****5.1. Extinguishing media**

**Suitable extinguishing media** : Water spray. Carbon Dioxide (CO2). Foam. Dry chemical.

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

Keep product and empty container away from heat and sources of ignition.

**5.3. Advice for fire-fighters**

Wear self-contained breathing apparatus and chemical suit. Thermal decomposition can lead to release of irritating gasses and vapours.

**SECTION 6 Accidental Release Measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.  
Always wear recommended Personal Protective Equipment.

**6.2. Environmental precautions**

Should not be released into the environment.

**6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections****Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

**SECTION 7 Handling and Storage****7.1. Precautions for safe handling**

Use personal protective equipment as required.  
Avoid contact with skin, eyes and clothing.

**7.2. Conditions for safe storage including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep containers tightly closed.

**Recommended storage temperature:**

Room temperature.  
Keep away from light.

**7.3. Specific end use(s)**

For research use only.

**5 M Imidazole Solution****TBE****SECTION 8 Exposure controls / Personal protection****8.1. Control parameters**

Components with workplace control parameters

**8.2. Exposure controls****Engineering measures**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye /face protection**

Safety glasses with eye-shields.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Skin protection**

Handle with gloves. Gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN 374. The gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with the 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.

**Control of environmental exposure**

Prevent product from entering drains. Do not allow material to contaminate ground water system.

**5 M Imidazole Solution****5IMZ****SECTION 9 Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| <b>Form</b>                                       | : Liquid                          |
| <b>Colour</b>                                     | : Colourless                      |
| <b>Odour</b>                                      | : Odourless                       |
| <b>Odour Threshold</b>                            | : No information available        |
| <b>pH</b>                                         | : 7-8                             |
| <b>Melting point</b>                              | : No information available.       |
| <b>Boiling point</b>                              | : No information available.       |
| <b>Flash point</b>                                | : No information available.       |
| <b>Evaporation rate</b>                           | : No information available.       |
| <b>Flammability (solid, gas)</b>                  | : No information available.       |
| <b>Lower explosion limit</b>                      | : No information available.       |
| <b>Upper explosion limit</b>                      | : No information available.       |
| <b>Vapour pressure</b>                            | : No information available.       |
| <b>Relative vapour density</b>                    | : No information available.       |
| <b>Density</b>                                    | : 1.07 g/cm <sup>3</sup> at 20 °C |
| <b>Relative density</b>                           | : No information available.       |
| <b>Water solubility</b>                           | : No information available.       |
| <b>Partition coefficient:<br/>n-octanol/water</b> | : No information available.       |
| <b>Auto-ignition temperature</b>                  | : No information available.       |
| <b>Decomposition temperature</b>                  | : No information available.       |
| <b>Viscosity, dynamic</b>                         | : No information available.       |
| <b>Explosive properties</b>                       | : Not classified as explosive.    |
| <b>Oxidizing properties</b>                       | : None                            |

**9.2. Other Information**

|                   |        |
|-------------------|--------|
| <b>Other data</b> | : None |
|-------------------|--------|

**5 M Imidazole Solution****5IMZ****SECTION 10 Stability and Reactivity****10.1. Reactivity**

None known.

**10.2. Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature).

**10.3. Possibility of hazardous reactions**

Hazardous reaction has not been reported.

**10.4. Conditions to avoid**

Incompatible products – strong heating

**10.5. Incompatible materials**

No dangerous reaction known under conditions of normal use.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**SECTION 11 Toxicological Information****11.1. Information on toxicological effects****Additional toxicological information**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handles according to specifications the product does not have any harmful effects to our experience and the information provided to us.

**11.2. Additional information****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.

**5 M Imidazole Solution****5IMZ****SECTION 11 Ecological Information****12.1. Toxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available.

**12.7. 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.

**SECTION 13 Disposal considerations****13.1. Waste treatment methods**

The generation of waste should be avoided or minimized where possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national / federal regulations.

**SECTION 14 Transport Information****14.1. UN Number**

Not classified as dangerous in the meaning of transport regulations

**14.2. Proper shipping name**

Not applicable

**14.3. Transport Hazard Classification**

Not applicable

**14.4. Packing Group**

Not applicable

**14.5. Environmental Hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Bulk Transport – annex II Marpol 73/78 - IBC**

Not applicable

**5 M Imidazole Solution****5IMZ****SECTION 15 Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national / local regulations are observed. See label for full details, information.  
This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

**Substances of very high concern (SVHC) according to REACH, Article 57**

**Boric acid** CAS No.: 10043-35-3

**15.2. Chemical Safety Assessment**

Not established.

**SECTION 16 Other Information****Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.  
The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.  
Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Relevant phrases**

H360FD – May damage fertility. May damage the unborn child.

**Revision**

Complete SDS revision

End of document