



# MATERIAL SAFETY DATA SHEET

Date of card preparation: 17.06.2004

Date of card update: 01.06.2015

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

### 1.1. Product identifier

**IMIDAZOLE BUFFERED SALINE (catalogue N° K-504)**

**IMIDAZOLE BUFFERED SALINE is designed for use as supplementary reagent for determination of fibrinogen.**

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

**Laboratory reagents. For professional use only.**

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

**Manufacturer:**

**PZ CORMAY S.A.  
ul. Wiosenna 22  
05-092 ŁOMIANKI**

**phone/fax. (0-22) 751 79 10, 751 79 14**

**between: 8 am and 4 pm**

**e-mail: msds@cormay.pl**

### 1.4. Emergency telephone number

Emergency telephone number: 112

## *SECTION 2: Hazards identification*


### 2.1. Classification of the substance or mixture

**IMIDAZOLE BUFFERED SALINE**

**Classification according to Regulation (EC) No 1272/2008 (CLP):**

**Repr. 1B: H360FD**

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP):	
	<p>IMIDAZOLE BUFFERED SALINE contains imidazole.</p> <p><i>Signal word:</i> Danger</p> <p><i>Hazard statement(s):</i> Repr. 1B: H360FD - May damage fertility. May damage the unborn child.</p> <p><i>Precautionary statement(s):</i> P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P281: Use personal protective equipment as required P308 + P313: IF exposed or concerned: Get medical advice/attention. P405: Store locked up. P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment.</p>

## 2.3. Other hazards

This mixture do not meet the criteria for PBT and vPvB.
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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.
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### 3.2. Mixtures

<b>IMIDAZOLE BUFFERED SALINE</b>	
<b>Imidazole</b>	Contains: < 1%
CAS number:	288-32-4
EC number:	-----
Index number:	-----
Registration number:	not available
<b>Classification according to Regulation (EC) No 1272/2008 [CLP]:</b>	
Acute Tox. 4, H302	
Skin Corr. 1B, H314	
Repr. 1B, H360FD	
<b>sodium azide</b>	Contains: < 0.2%
CAS number:	26628-22-8
EC number:	247-852-1
Index number:	011-004-00-7
Registration number:	not available
<b>Classification according to Regulation (EC) No 1272/2008 [CLP]:</b>	
Acute Tox. 2, H300	
Aquatic Acute 1, H400	
Aquatic Chronic 1, H410	

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<b>hydrogen chloride</b>	Contains: < 1
CAS number:	7647-01-0
EC number:	231-595-7
Index number:	017-002-00-2
Registration number:	not available
<b>Classification according to Regulation (EC) No 1272/2008 [CLP]:</b>	
Acute Tox. 3, H331	
Skin Corr. 1A, H314	

The full text of H phrases is given in section 16

## ***SECTION 4: First aid measures***

### **4.1. Description of first aid measures**

**After exposure by respiratory passages:** fresh air. Call in physician.  
**After skin contamination:** wash off with plenty of water. Take off the contaminated clothing.  
**After contamination of eyes:** rinse out with plenty of water for at least 15 minutes with the eyelid held wide open.  
**After consumption:** give the sufferer a large amount of water to drink. If the sufferer feels unwell, consult a doctor.

### **4.2. Most important symptoms and effects, both acute and delayed**

No data available.

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

No data available.

## ***SECTION 5: Firefighting measures***

### **5.1. Extinguishing media**

The mixture is inflammable.  
 In case of fire use extinguishing media suitable for materials stored in immediate vicinity. Water, CO<sub>2</sub>, dry powder can be used as the extinguish medium.  
 No data about do not recommended extinguishing media.

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

There is no data about hazardous substances which may occur during fire thermal decomposition of the mixture.

### **5.3. Advice for firefighters**

The rescuers must be equipped with protective clothing and respiratory tract isolating equipment, irrespective of ambient air (in the case of large fire).

## ***SECTION 6: Accidental release measures***

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### ***6.1.1. For non-emergency personnel***

Avoid contamination with the preparation.  
Notify the neighbourhood of the breakdown.  
Do not inhale vapours/ aerosols.  
Secure the flow of fresh air into closed rooms.  
Avoid contact of the mixture with skin and eyes.  
Remove contaminated clothing and wash before reuse.

#### ***6.1.2. For emergency responders***

Wear protective clothing and rubber gloves.

### **6.2. Environmental precautions**

Dilute with plenty of water. Avoid entering the product into drains, surface water and groundwater, reservoirs and waterways.

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

Collect small quantities with the use of an absorbing agent (sand, diatomite, acid binders, universal binders, sawdust), rinse with large amount of water if necessary. Provide material collected for recycling.

### **6.4. Reference to other sections**

Use the control measures and personal protective equipment described in section 8 of this card. The released material to follow the rules described in section 13 of this MSDS - Disposal consideration.

## ***SECTION 7: Handling and storage***

### **7.1. Precautions for safe handling**

While working with the preparation, one should use appropriate means of personal protection (see pt. 8).  
Avoid contact of the preparation with skin and eyes, as well as inhaling its mists.  
Secure efficient local ventilation.

#### **Industrial hygiene:**

You must not have meals, drink, or smoke tobacco while working with the preparation, except in places designed for that purpose. Wash your hands after work with the substance carefully with soapy water. Apply skin-protective barrier cream.

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

In accordance with the norms generally accepted for chemicals in laboratories.  
Store in original manufacturer containers.  
Store in closed containers at temperatures compatible with the information provided on the label.  
Protect against light.  
Protect containers from damage.  
Keep away from food and animal feed.

### 7.3. Specific end use(s)

No data available.

## ***SECTION 8: Exposure controls/personal protection***

### **8.1. Control parameters**

Contains substances with occupational exposure limit values at workplace.

#### **Data for sodium azide:**

<b>Limit value - Eight hours</b>		<b>Limit value - Short term</b>	
<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>
0.1		0.3	

#### **Data for hydrogen chloride:**

<b>Limit value - Eight hours</b>		<b>Limit value - Short term</b>	
<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>
8	5	15	10

### **8.2. Exposure controls**

#### *8.2.1. Appropriate engineering controls*

No data available.

#### *8.2.2. Individual protection measures, such as personal protective equipment*

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

##### **a) Eye / Face protection:**

Avoid direct contact of the product with eyes use glasses.

##### **b) skin protection:**

###### **- hand protection:**

Avoid direct contact of the product with skin, immediately take off clothes soiled with the preparation and wash contaminated skin with soapy water, use personal protective, clothing and gloves:

##### **c) Respiratory protection:**

Apply in rooms with efficiently working ventilation, avoid inhaling product mists, respiratory tract-protective agents are not required.

##### **d) Thermal hazards:**

Not applicable.

#### *8.2.3. Environmental exposure controls*

No data available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

	<u>IMIDAZOLE BUFFERED SALINE</u>
a) Appearance :- -The physical state : -Colour:	<i>liquid colorless</i>
b) Odour:	<i>odourless</i>
c) Odour threshold :	<i>no data available</i>
d) pH:	<i>7.2</i>
e) Melting point/freezing point	<i>no data available</i>
f) Initial boiling point and boiling range	<i>100°C</i>
g) Flash point:	<i>no data available</i>
h) Evaporation rate:	<i>no data available</i>
i) Flammability (solid, gas)	<i>not applicable</i>
j) Upper/lower flammability or explosive limits :	<i>no data available</i>
k) Vapour pressure :	<i>no data available</i>
l) Vapour density :	<i>no data available</i>
m) Relative density:	<i>no data available</i>
n) Solubility(ies)	<i>miscible with water</i>
o) Partition coefficient: n-octanol/water	<i>no data available</i>
p) Auto-ignition temperature	<i>no data available</i>
q) Decomposition temperature:	<i>no data available</i>
r) Viscosity :	<i>no data available</i>
s) Explosive properties:	<i>no data available</i>
t) Oxidising properties :	<i>no data available</i>

### 9.2. Other information

No other relevant information.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable in conditions provided by the manufacturer.

### 10.2. Chemical stability

The product is stable when normal handling in accordance with conditions provided by the manufacturer.

### 10.3. Possibility of hazardous reactions

Not known.

### 10.4. Conditions to avoid

The product is stable in conditions provided by the manufacturer. Avoid light and heat.

### 10.5. Incompatible materials

Not known.

## 10.6. Hazardous decomposition products

Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

No data for the mixture. Toxicological problems should not be expected if the product were used and applied appropriately. The product should be handled with the care usual when dealing with chemicals.

**a) acute toxicity:**

**Data for imidazole :**

LD<sub>50</sub> (oral, rat) – 220 mg/kg

**Data for hydrogen chloride:**

LD<sub>50</sub> (oral, rat) – 700 mg/kg

LD<sub>50</sub> (dermal, rabbit) – 5010 mg/kg

LC<sub>50</sub> (inhalation, rat) – 3124 ppm 1h

**b) irritation:**

No data available.

**c) corrosivity:**

No data available.

**d) sensitisation:**

No data available.

**e) repeated dose toxicity:**

No data available.

**f) carcinogenicity:**

No data available.

**g) mutagenicity:**

No data available.

**h) toxicity for reproduction:**

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Quantitative data on the ecological effect of this mixture are not available. The mixture toxicity evaluation is based on evaluation of the toxicity of particular components.

**Ecotoxicity:**

**Data for imidazole:**

Fish (*Leuciscus idus*) – LC<sub>50</sub> - 280 mg/L – 48h

Alga (*Desmodesmus subspicatus*) - EC<sub>50</sub> - 130 mg/L – 72h

Alga (*Desmodesmus subspicatus*) - EC<sub>50</sub> - 82 mg/L – 96h

Microorganisms - EC<sub>50</sub> - 1200 mg/L 17 h

Microorganisms - EC<sub>50</sub> - 231 mg/L 0.5 h

Crustacean (*Daphnia magna*) - EC<sub>50</sub> - 341.5 mg/L – 48h

**Data for sodium azide:**

Fish (*Oncorhynchus mykiss*) - LC<sub>50</sub> - 0.8 mg/L – 96h

Fish (*Lepomis macrochirus*) - LC<sub>50</sub> - 0.7 mg/L – 96h

Fish (*Pimephales promelas*) - LC<sub>50</sub> - 5.46 mg/L – 96h

**Data for hydrogen chloride:**

Fish (*Gambusia affinis*) – LC<sub>50</sub> - 282 mg/L – 96h

**Further ecological data:**

Do not allow for penetration into waters, sewage or soil.

**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. Other adverse effects**

No data available.

***SECTION 13: Disposal considerations***

**13.1. Waste treatment methods**

***Product:***

Chemical residues, in general, are included into special waste. Disposing of the latter is regulated by appropriate laws and ordinances. We recommend contacting the appropriate authorities, or waste disposal enterprises that will advise you on how to dispose of special waste.

***Packing:***

Remove in accordance with official regulations. Treat contaminated packages in the same way as the substance itself. If the regulations do not provide otherwise, non-contaminated packages can be treated like household waste or forward them to be utilized.

***SECTION 14: Transport information***

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable.

**14.4. Packing group**

No limits.



#### 14.5. Environmental hazards

Not applicable.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

### ***SECTION 15: Regulatory information***

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Material Safety Data Sheet was prepared in accordance with:**

Regulation (EC) No 1907/2006 of European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); Regulation (EC) No 1272/2008 of the European Parliament and Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

#### **15.2. Chemical safety assessment**

Chemical safety assessment has been no carried out for the product.

### ***SECTION 16: Other information***

***Full text of abbreviations and acronyms:***

Acute Tox. 3 - Acute toxicity (category 3)

Acute Tox. 2 - Acute toxicity (category 2)

Aquatic Acute 1 - Hazardous to the aquatic environment (category 1)

Aquatic Chronic 1 - Hazardous to the aquatic environment (category 1)

Skin Corr 1A - Skin corrosion (category 1A)

Repr. 1B - Reproductive toxicity (category 1B)

***Text of H-code(s):***

H300 - Fatal if swallowed.

H314 - Causes severe skin burns and eye damage.

H331 - Toxic if inhaled.

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

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Methods of evaluating information for the purpose of classification: calculation method.

The foregoing information is based on the present state of our knowledge. It characterizes the product with respect to the appropriate safety measures. They do not guarantee the properties of the product.

We do not take responsibility for damage and losses that may result from inappropriate use of the mixture.

Reason of changes:

Change of mixture classification according to Regulation (EC) No 1272/2008 (CLP).

Changing the MSDS in accordance with Annex II to Commission Regulation (EU) No 453/2010.