

## SAFETY DATA SHEET

### Imidazole Buffer Solution

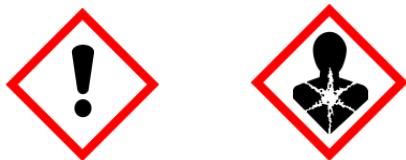
#### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Imidazole Buffer Solution
<b>Catalogue Numbers</b>	C.BMD.IMID-05ML-BS C.BMD.IMID-125ML-B C.BMD.IMID-1L-BS
<b>Company Identification</b>	BioMedica Diagnostics Inc. 94 Wentworth Road, PO Box 1030 Windsor, Nova Scotia CANADA B0N 2T0
<b>Company Contact</b>	Corporate Phone: 1-902-798-5105 Corporate Fax: 1-902-798-1025 Email: <a href="mailto:info@biomedicadiagnostics.com">info@biomedicadiagnostics.com</a> Website: <a href="http://www.biomedicadiagnostics.com">www.biomedicadiagnostics.com</a>
<b>Emergency Phone Number</b>	US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924 International +1-813-248-0585 Australia 1-300-954-583 Brazil 0-800-591-6042 China 400-120-0751 India 000-800-100-4086 Mexico 01-800-099-0731 CONTRACT NUMBER MIS9591327

#### 2. HAZARDS IDENTIFICATION

##### GHS Classification

##### Pictogram



**Signal Word**      Danger

##### Hazard Statements

H305	May be harmful if swallowed and enters airways.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H320	Causes eye irritation.

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Precautionary Statements</b>	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P285	In case of inadequate ventilation wear respiratory protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest
	in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptom: Call a POISON CENTER or doctor / physician.
<b>Potential Health Effects</b>	
<b>INHALATION</b>	Prolonged exposure may result in dizziness and general weakness.
<b>SKIN</b>	Prolonged and/or repeated contact may cause irritation and/or dermatitis.
<b>EYES</b>	May cause eye irritation.
<b>INGESTION</b>	May cause irritation of the digestive tract.
<b>CHRONIC</b>	No information found.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Note: Only the ingredients deemed hazardous by the Canadian enviroOSH Legislation are listed below.

CAS#	Chemical Name	Percent	EINECS
6923-01-9	Imidazole	<1%	Not available
26628-22-8	Sodium Azide	<1%	247-852-1

### 4. FIRST AID MEASURES

<b>EYES</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention immediately.
<b>SKIN</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation develops or persists, seek medical attention.
<b>INGESTION</b>	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
<b>INHALATION</b>	Move to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

### 5. FIRE FIGHTING MEASURES

<b>GENERAL</b>	Wear a self-contained breathing apparatus in pressure-
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	demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
<b>EXTINGUISHING MEDIA</b>	Use water spray, dry chemical, carbon dioxide or chemical foam.
<b>AUTOIGNITION TEMPERATURE</b>	Not applicable.
<b>FLASH POINT: LOWER LIMIT (%)</b>	Not available.
<b>FLASH POINT: UPPER LIMIT (%)</b>	Not available.
<b>FIRE AND EXPLOSION HAZARDS</b>	Not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

<b>GENERAL</b>	Use proper personal protective equipment as indicated in Section 8.
<b>SPILLS/LEAKS</b>	Absorb spill with inert material, then place in suitable container. Clean up spills immediately, observing precautions in the section 8.

## 7. HANDLING AND STORAGE

<b>HANDLING</b>	Avoid contact with skin and eyes. Avoid ingestion and inhalation.
<b>STORAGE</b>	Store 2-8°C in the original container and protect from sunlight. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>ENGINEERING CONTROLS</b>	Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.												
<b>EXPOSURE LIMITS</b>	<table border="1"> <thead> <tr> <th>Chemical Name</th> <th>ACGIH</th> <th>NIOSH</th> <th>OSHA</th> </tr> </thead> <tbody> <tr> <td>Sodium Azide</td> <td>0.29 mg/m<sup>3</sup> Ceiling (as NaN<sub>3</sub>) 0.11 ppm Ceiling (vapour, as hydrazoic acid)</td> <td>0.1 ppm Ceiling (as HN<sub>3</sub>); 0.3 mg/m<sup>3</sup> Ceiling as NaN<sub>3</sub></td> <td>Not on this list.</td> </tr> <tr> <td>Imidazole</td> <td>Not on this list.</td> <td>Not on this list.</td> <td>Not on this list.</td> </tr> </tbody> </table>	Chemical Name	ACGIH	NIOSH	OSHA	Sodium Azide	0.29 mg/m <sup>3</sup> Ceiling (as NaN <sub>3</sub> ) 0.11 ppm Ceiling (vapour, as hydrazoic acid)	0.1 ppm Ceiling (as HN <sub>3</sub> ); 0.3 mg/m <sup>3</sup> Ceiling as NaN <sub>3</sub>	Not on this list.	Imidazole	Not on this list.	Not on this list.	Not on this list.
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<b>EYE/FACE PROTECTION</b>	Wear appropriate protective eyeglasses or safety goggles to prevent eye exposure.												
<b>SKIN PROTECTION</b>	Wear appropriate clothing and gloves to prevent skin exposure.												
<b>RESPIRATORY PROTECTION</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced follow the OSHA respirator regulations found in 29 CFR 1920.134 or European Standard EN 149.												
<b>OTHER/GENERAL PROTECTION</b>	Follow general laboratory safety procedures.												

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Liquid
<b>COLOR</b>	Clear
<b>ODOR</b>	Odorless
<b>pH</b>	No information found.

<b>VAPOR PRESSURE</b>	No information found.
<b>VAPOR DENSITY</b>	No information found.
<b>EVAPORATION RATE</b>	No information found.
<b>VISCOSITY</b>	No information found.
<b>BOILING POINT</b>	No information found.
<b>MELTING POINT</b>	No information found.
<b>SOLUBILITY IN WATER</b>	Soluble in water.
<b>DENSITY</b>	No information found.
<b>MOLECULAR FORMULA</b>	Not applicable.
<b>MOLECULAR WEIGHT</b>	No information found.

## 10. STABILITY AND REACTIVITY

<b>STABILITY</b>	Stable under normal temperatures and pressures.
<b>CONDITIONS TO AVOID</b>	Incompatible materials, dust generation.
<b>INCOMPATIBILITIES</b>	Strong oxidants, transition metals.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	None.
<b>HAZARDOUS POLYMERIZATION</b>	Has not been reported.

## 11. TOXICOLOGICAL INFORMATION

	<b>Sodium Azide</b>	<b>Imidazole</b>
<b>CAS#</b>	26628-22-8	6923-01-9
<b>RTECS</b>	VY8050000	Not available
<b>LD50/LC50</b>	Oral – rat – 27 mg/Kg Dermal – rabbit 20 mg/Kg	Inhalation, mouse: LC50 = 1108 ppm/1H Inhalation, mouse: LC50 = 20487 mg/m <sup>3</sup> /5M Inhalation, mouse: LC50 = 3940 mg/m <sup>3</sup> /30M Inhalation, mouse: LC50 = 8300 mg/m <sup>3</sup> /30M Inhalation, rat: LC50 = 3124 ppm/1H Inhalation, rat: LC50 = 60938 mg/m <sup>3</sup> /5M Inhalation, rat: LC50 = 7004 mg/m <sup>3</sup> /30M Inhalation, rat: LC50 = 45000 mg/m <sup>3</sup> /5M Inhalation, rat: LC50 = 8300 mg/m <sup>3</sup> /30M Oral, rabbit: LD50 = 900 mg/kg.
<b>CARCINOGENICITY</b>	Not listed as a carcinogen by IARC, OSHA or NTP	Not listed as a carcinogen by IARC, OSHA or NTP
<b>EPIDEMIOLOGY</b>	Rabbit – mild skin irritation – 24 h Rabbit – severe eye irritation	No information available.
<b>TERATOGENICITY</b>	No information available.	No information available.
<b>REPRODUCTIVE</b>	No information available.	No information available.
<b>MUTAGENICITY</b>	No information available.	No information available.
<b>NEUROTOXICITY</b>	No information available.	No information available.
<b>OTHER</b>	No information available.	No information available.

**Note: The health effects above are based on an extrapolation of the data on the pure product ingredient. To the best of our knowledge, no health effects have been identified for the product mixture under normal working conditions.**

## 12. ECOLOGICAL INFORMATION

No ecotoxicological data available on the product. Sodium Azide is toxic to fish (0.98-8 mg/L and plankton 5-14 mg/L). Use in accordance with good laboratory practice. Avoid release to the environment.

### 13. DISPOSAL CONSIDERATIONS

The product waste is classified as toxic and harmful (azides). Dispose of waste product, unused product and contaminated product in compliance with federal, state, and local regulations. If unsure of the applicable requirements, contact the authorities for information. It is the responsibility of the user to classify the waste correctly before disposal. **RCRA P Series Wastes** – None of the components are on this list. **RCRA U Series Wastes** – None of the components are on this list.

### 14. TRANSPORT INFORMATION

DOT – Not regulated

TDG – Not regulated

IATA – Not regulated

IMDG/IMO – Not regulated

ICAO – Not regulated

### 15. REGULATORY INFORMATION

#### TSCA

**CAS#** 26628-22-8 is listed on the TSCA Inventory.

**CAS#** 6923-01-9 is not listed on the TSCA Inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### SARA

#### CERCLA Hazardous Substances and corresponding RQs

**CAS#** 26628-22-8: 1000 lb final RQ; 454 kg final RQ

#### SARA Section 302 Extremely Hazardous Substances

**CAS#** 26628-22-8: 500 lb TPQ (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solvent form)

#### SARA Codes

**CAS#** 26628-22-8: acute, chronic, reactive.

#### Section 313

This material contains Sodium azide (CAS# 26628-22-8) but not in a high enough concentration to be reportable under Section 313 of SARA Title III and 40 CFR Part 372.

#### Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE:**

Sodium azide can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

**WGK (Water Danger/Protection)**

**CAS#** 26628-22-8: 2

**CAS#** 6923-01-9 No information found.

**Canada**

**CAS#** 26628-22-8 is listed on Canada's DSL List.

**CAS#** 26628-22-8 is listed on Canada's Ingredient Disclosure List.

**CAS#** 6923-01-9 is not listed on Canada's Ingredient Disclosure List.

**Note: The health effects above are based on an extrapolation of the data on the pure product ingredient. To the best of our knowledge, no health effects have been identified for the product mixture under normal working conditions.**

**16. OTHER INFORMATION**

SDS REVISION: rev 1.1 (26 May 2017)

The information above is believed to be accurate and represents the best information available to us. However, neither the named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, no guarantees can be given that these are the only hazards.

This Safety Data Sheet characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.