



**Boston BioProducts, Inc.**  
 159 Chestnut Street  
 Ashland, MA 01721  
 ISO Certified

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

- 1.1 PRODUCT NAME:** 1.0 M Imidazole  
**CATALOG #:** P-804
- 1.2 RECOMMENDED USE:** Laboratory Chemicals
- 1.3 COMPANY IDENTIFICATION:** Boston BioProducts, Inc.  
 159 Chestnut Street, Ashland, MA 01721
- 1.4 EMERGENCY CONTACT:** 1-800-535-5053  
**TOLL FREE NUMBER:** 1-888-881-8691

### SECTION 2 - HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

H290	Corrosive to metals	Category 1
H314	Skin corrosion/irritation	Category 1
H318	serious eye damage	Category 1
H402	Acute aquatic toxicity	Category 3

#### 2.2 GHS Label elements, including Hazard and Precautionary Statement(s)

##### Pictogram



**Signal word: Danger**

##### Hazard statement(s)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage
H402	Harmful to aquatic life.



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**Prevention, Response, Storage and Disposal Precautionary Statement(s)**

P234	Keep only in original container.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling
P273	Avoid release to the environment
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant stainless-steel container with a resistant inner Liner.
P501	Dispose of contents/ container to an approved waste disposal plant.

**SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS**

**Composition:** 1.0 M Imidazole, pH 7.0 ± 0.15 (Prepared in 18.2 megohms water and filtered through 0.22-micron filter.

Component	CAS Number	%
Imidazole	288-32-4	~6.8%
Water	7732-18-5	Rest



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## **SECTION 4 - FIRST-AID MEASURES**

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

**General advice:** Consult a doctor and show this safety data sheet.

- i. If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- ii. In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- iii. In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of immediate medical attention and special treatment needed:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

## **SECTION 5 - FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**5.2 Special hazards arising from the substance or mixture:** Sodium oxides.

**5.3 Precautions for fire-fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**5.4 Further information:** no data available

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:** Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

**6.2 Environmental precautions:** Do not let product enter drains.



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**6.3 Methods and materials for containment and cleaning up:** Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

**6.4 Reference to other sections:** For required PPE see section 8. For disposal see section 13.

**SECTION 7 - HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

**7.3 Specific end use(s):** Use in a laboratory fume hood where possible.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Components with workplace control parameters**

Component	Imidazole	Imidazole	Imidazole	Imidazole	Imidazole	Imidazole
CAS-No	288-32-4	288-32-4	288-32-4	288-32-4	288-32-4	288-32-4
Value	TWA	C		C		C
Control parameters	2.000000 mg/m3	2.000000 mg/m3	Remarks Upper Respiratory Tract irritation Eye irritation Skin irritation	2 mg/m3	Upper Respiratory Tract irritation Eye irritation Skin irritation	2.000000 mg/m3
Basis	USA. Occupational Exposure Limits			USA. ACGIH Threshold Limit Values		USA. NIOSH Recommended Exposure Limits



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	(OSHA) - Table Z-1 Limits for Air Contaminants			(TLV)		
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- ❖ **ACGIH:** American Conference of Governmental Industrial Hygienists.
- ❖ **OSHA:** Occupational Safety and Health Administration.
- ❖ **NIOSH IDLH:** The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health.

### 8.2 Exposure Controls

- i. **Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

### 8.3 Personal protective equipment

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- iv. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. **Control of environmental exposure:** Do not let product enter drains

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid	<b>Vapor Pressure</b>	No Data Available
<b>Odor</b>	Odorless	<b>Vapor Density</b>	No Data Available
<b>Odor Threshold</b>	No Data Available	<b>Relative Density</b>	1.030 g/cm <sup>3</sup>
<b>pH (50g/l @ 25 ° C)</b>	7.0	<b>Water Solubility</b>	Soluble
<b>Melting / Freezing Point</b>	88-91°C	<b>Partition Coefficient</b>	No Data Available



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<b>Initial Boiling Point Range</b>	No Data Available	<b>Auto-Ignition Temperature</b>	No Data Available
<b>Flash Point</b>	No Data Available	<b>Decomposition Temperature</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available	<b>Viscosity</b>	No Data Available
<b>Flammability (Solid, Gas)</b>	No Data Available	<b>Explosive Properties</b>	No Data Available
<b>Upper/Lower Flammability or Explosive Limits</b>	No Data Available	<b>Oxidizing Properties</b>	No Data Available

**SECTION 10 - STABILITY AND REACTIVITY**

**Stability:** Stable under recommended transport or storage conditions.

**Conditions to Avoid:** No Data Available

**Incompatible Materials:** Strong oxidizing agents, Strong acids, Organic materials

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LD50 Inhalation</b>
970 mg/kg (Rat)	Category 1 C	Not Listed

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity**

Soil 0.0425 mg/kg Marine water 0.013 mg/l Fresh water 0.13 mg/l Marine sediment 0.0336 mg/kg Fresh water sediment 0.336 mg/kg Sewage treatment plant 10 mg/l Aquatic intermittent release 1.3 mg/	<b>Toxicity to daphnia and other aquatic invertebrates</b>
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**Persistence and degradability/Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** No data available

**Other adverse effects:** No data available

**Chronic Toxicity:** There are no known carcinogenic chemicals in this product

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of container and unused contents in accordance with federal, state and local requirements.

**SECTION 14 - TRANSPORT INFORMATION**

	UN#	Proper Shipping Name	Hazard Class	Packaging Group
DOT	3263	Imidazole	8	II
TDG	3263	Imidazole	8	II
IATA	3263	Imidazole	8	II
IMDG/IM O	3263	Imidazole	8	II

**SECTION 15 - REGULATORY INFORMATION**

**INTERNATIONAL INVENTORIES**

TSCA	DSL	NDSL	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Listed	Listed	-	-	-	Listed	Listed	Listed	Listed	Listed

**USA FEDERAL REGULATION**

**TSCA 12(b):** Not Applicable

**SARA 313:** Not Applicable

**SARA 311/312 HAZARDOUS CATEGORIZATION:** Not Applicable

**OSHA:** Not Applicable

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.



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**Clean Water Act/ Clean Air Act**

CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Listed	1000 lb	-	-

**CERCLA:** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Component	Hazardous Substances RQs	CERCLA EHS RQs
Imidazole	1000 lb	-

**HMIS Rating**

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
3		0	0

**NFPA Rating**

Health Hazard	Fire Hazard	Reactivity Hazard
3	0	0

**STATE RIGHT TO KNOW**

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Listed	Listed	Listed	-	Listed

**US DEPARTMENT OF TRANSPORTATION**

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
Yes	No	No





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**U.S. DEPARTMENT OF HOMELAND SECURITY:** This product does not contain any DHS chemicals.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**This SDS complies with the requirements of Regulation (EC).**

### **SECTION 16 - OTHER 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. Boston BioProducts, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is sold for laboratory research and development purposes use only.

**Revised: 2018**