

# SAFETY DATA SHEET

## IMIDAZOLE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name:** Imidazole  
**Catalog Number:** IMD508/IMD510

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification:

Acute toxicity, Oral (category 4)  
Skin corrosion (category 1C)  
Serious eye damage (category 1)  
Reproductive toxicity (category 1B)

#### Pictogram:



**Signal word**      **Danger**

#### Hazard statements

H302 Harmful if swallowed  
H314 Causes severe skin burns and eye damage  
H380 May damage fertility or the unborn child

#### Precautionary statements

P201- Obtain special instructions before use..  
P261- Avoid breathing dust/fume/gas/mist/vapors/spray  
P280- wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P304-P340- IF INHALED remove to fresh air and keep at rest in a position comfortable for breathing.

P302+P352- IF ON SKIN: wash with plenty of soap and water.  
P305+P351+P338- IF IN EYES: rinse cautiously with water for several minutes. remove contact lenses if present and easy to do. Continue rinsing.

**Target Organs:** None known.

**Eyes:** Causes eye irritation. May cause burns.  
**Skin:** Causes skin irritation. May cause burns.  
**Inhalation:** Causes irritation. May cause burns.  
**Ingestion:** Harmful if swallowed. May cause burns and vomiting.

#### CHRONIC HEALTH HAZARDS:

Corrosive. Harmful If swallowed. Causes severe eye and skin Irritation. May cause burns.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	RTECS #	%
Imidazole	288-32-4	N13325000	>99%

**Molecular Formula:** C<sub>3</sub>H<sub>4</sub>N<sub>2</sub>  
**Molecular Weight:** 68.08

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION  
**Skin:** Flush area immediately with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION.  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.  
**Ingestion:** Do not induce vomiting. Give large quantities of water. GET MEDICAL ATTENTION IMMEDIATELY.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.  
**Storage Conditions:** Room temperature.

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### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Crystals  
**Appearance and Odor:** Colorless  
**Melting Point:** 88-90°C  
**Boiling Point:** 255 – 256° C  
**Specific Gravity:** N/A  
**Vapor Density:** 2.36 (air=1)  
**Water Solubility:** Soluble  
**pH:** Not available

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure  
**Conditions to avoid:** dust generation  
**Incompatibility:** Strong oxidizing agents and reducing agents  
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide,  
**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

ORL-RAT LD50: 220 mg/kg  
ORL- MOUSE LD50: 880 mg/kg

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** DNA Inhibition: Human cell types 1mmol/L  
**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

#### DOT (US)

UN number: 3263 Class 8 Packing group: II  
Proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (imidazole)

#### IMDG

UN number: 3263 Class 8 Packing group: II  
Proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (imidazole)

#### IATA

UN number: 3263 Class 8 Packing group: II  
Proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed  
**European/International:** N/A  
**Canada:** WHMIS: **E**

### SECTION 16 ADDITIONAL INFORMATION

#### Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
	2	0	0

Prepared By: M.Kierdelewicz (President)  
Date Prepared: Jan 1/2025  
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.  
Observe all federal, provincial and state laws concerning health, safety and pollution.