

# SAFETY DATA SHEET

## BETAINE HYDROCHLORIDE

### 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:** Betaine Hydrochloride  
**Catalog Number:** BET186

### SECTION 2 HAZARDS IDENTIFICATION

**WHMIS:** not controlled

**GHS Classification:**  
Not hazardous according to GHS.

**Potential Health Effects**  
The toxicological properties of this substance have not been fully investigated.

**Target Organs:** None known  
**Eyes:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Inhalation:** may cause irritation. The toxicological properties of this substance have not been fully investigated.  
**Ingestion:** May be harmful if swallowed. May cause irritation of the digestive tract.  
**CHRONIC HEALTH HAZARDS:** Not available

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Betaine Hydrochloride	590-46-5	98+

**Molecular Formula:** C5H11NO2HCl  
**Molecular Weight:** 153.6

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. GET MEDICAL AID.  
**Skin:** Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes.  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. GET MEDICAL ATTENTION.  
**Ingestion:** Wash mouth with water. Do not induce vomiting. Get medical aid.

### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Toxic gas and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.  
**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. Avoid generating dust.

### 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.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed by OSHA  
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:** Solid  
**Appearance and Odor:** white powder  
**Freezing/:** N/A  
**Melting Point:** N/A  
**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Solubility:** soluble,  
**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

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**Stability:** Stable under normal temperatures and pressure

**Conditions to avoid:** dust generation. Excess heat

**Incompatibility:** Strong oxidizing agents

**Hazardous Decomposition Products:** carbon monoxide, carbon dioxide, nitrogen oxides.

**Hazardous Polymerization:** Will not occur

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.

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50 / LC50:

Not available

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**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:

**US:** Not regulated

**Canada:** Not regulated

**European Union:** Not regulated

### SECTION 15 REGULATORY INFORMATION

**US:** TSCA: listed

**European/International:** Do not breathe dust.. Avoid contact with skin and dust.

**Canada:** WHMIS: not controlled

### SECTION 16 ADDITIONAL INFORMATION

#### Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
	1	0	0

Prepared By: M.Kierdelewicz (President)

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