

# SAFETY DATA SHEET

## CAFFEINE

### 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: CAFFEINE**  
**Catalog Number: CAF114**

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**  
Acute toxicity, Oral (Category 4)

Pictogram:



Signal Word: WARNING

Hazard Statements;

H302 Harmful if swallowed.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P391 Collect spillage.  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### Potential health effects

**Target Organs:** Heart, Central Nervous System

**Eyes:** May cause irritation..

**Skin:** May cause irritation. May be absorbed through skin.

**Inhalation.** May cause irritation to respiratory tract. harmful if inhaled.

**Ingestion:** Harmful if swallowed..May cause irritation. May cause GI irritation with vomiting and diarrhea. May cause rapid heart rate

**CHRONIC HEALTH HAZARDS:** May cause GI and cardiac disturbances. May cause reproductive effects.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
CAFFEINE	200-362-1	>99%

**Molecular Formula:** C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight:** 194.09

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water for 15 minutes . Get medical aid immediately.  
**Skin:** In case of contact, flush area immediately with water. Get medical aid if irritation persists.  
**Inhalation:** Remove victim to fresh air. Get medical aid . Call poison center.  
**Ingestion:** Wash mouth with water. DO NOT INDUCE VOMITING. Get medical aid . Call poison center.

### 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.

### 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.  
**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:  
ACGIH, NIOSH, OSHA, 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.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** solid  
**Appearance and Odor:** white powder.  
**Melting Point:** 237.8° C  
**Boiling Point:** 177.8  
**Specific Gravity:**  
**Vapor Density:** N/A

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**Water Solubility:** yes  
**pH:** 4-6

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure  
**Conditions to avoid:** dust generation  
**Incompatibility** strong oxidizing agents.  
**Hazardous Decomposition Products:** carbon dioxide, carbon monoxide and nitrogen oxides,  
**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50/Lc50:  
Oral , mouse: LD50=127mg/kg  
Oral rat, LD50= 192mg/kg

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** No data available  
**Carcinogenicity:** see RTECS for complete information

### 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:**  
ALKALOIDS, SOLID, N.O.S., 6.1, UN 1544, PACKING GROUP III

**Canada:**  
ALKALOIDS, SOLID, N.O.S., 6.1, UN 1544, PACKING GROUP III

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed  
**European/International:**  
**RISK PHRASES:**  
R 22, harmful if swallowed.  
**Canada:** WHMIS: D1B

### SECTION 16 ADDITIONAL INFORMATION

#### Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
2	0	0	0

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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.