

# SAFETY DATA SHEET

## ADENINE

### 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: Adenine**  
**Catalog Number: ADA001**

### SECTION 2 HAZARDS IDENTIFICATION

GHS: not considered hazardous according to GHS.

**Target Organs:** Central nervous system, eyes, skin  
**Eyes:** May cause irritation..  
**Skin:** May cause irritation.  
**Inhalation:** May cause irritation to respiratory tract. May be harmful if swallowed  
**Ingestion:** May cause irritation to GI tract. May be harmful if inhaled.  
**CHRONIC HEALTH HAZARDS:** N/A

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Adenine	73-24-5	100%

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water .  
**Skin:** In case of contact, flush area immediately with water.  
**Inhalation:** Remove victim to fresh air.  
**Ingestion:** Wash mouth with water. Get medical aid

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

### 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:** solid  
**Appearance and Odor:** white powder. Odorless.  
**Melting Point:** N/A  
**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Water Solubility:** yes  
**pH:** N/A  
**Molecular weight:** 135.13  
**Molecular Formula:** C<sub>5</sub>H<sub>5</sub>N<sub>5</sub>

### 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:

Oral, rat: LD50= 227mg/kg  
Oral, mouse: LD50= 783mg/kg

**Epidemiology:** No data available  
**Teratogenicity:** abnormalities noted in animal studies.  
**Reproductive Effects:** abnormalities noted in animal studies.  
**Neurotoxicity:** abnormalities noted in animal studies.  
**Mutagenicity:** No data available

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### 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:** Not regulated

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: not listed

**European/International:** N/A

**Canada:** WHMIS: not controlled

### SECTION 16 ADDITIONAL INFORMATION

#### Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
	0	0	0

Prepared By: M.Kierdelewicz (President)

Date Prepared: Dec 29/2021

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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.