

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

Molecular Formula: C₅H₅N₅

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity, Oral Category 3

Pictogram:



Signal word: Danger

Hazard statement: H301 Toxic 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 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

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 inhaled

Ingestion: Harmful if inhaled.

CHRONIC HEALTH HAZARDS: N/A

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Adenine	73-24-5	100%

Molecular weight: 135.13

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

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pH: N/A
Molecular weight: 135.13
Molecular Formula: C₅H₅N₅

SECTION 16 ADDITIONAL INFORMATION

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.

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

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

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:

TDG UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Adenine) Labels: 6.1 ERG Code: 154
Marine pollutant: no
IMDG UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Adenine)
IATA UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (Adenine)

SECTION 15 REGULATORY INFORMATION

US : TSCA: not listed
European/International: N/A