

SAFETY DATA SHEET

TEMED

(N,N,N',N'TETRAMETHYLETHYLENEDIAMINE)

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: CANUTEC 1-613-996-6666
Chemical Name: TETRAMETHYLETHYLENEDIAMINE (1,2-Bis(dimethylamino)ethane)
Catalog Number: TEM001

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

Flammable liquids (Category 2)
Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)

Pictogram:



Signal Word: DANGER

Hazard Statements:

H225 Highly flammable liquid and vapour.
H301 + H331 Toxic if swallowed or if inhaled
H314 Causes severe skin burns and eye damage.

Potential Health Effects:

Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.

Target Organs: Eyes , skin and mucous membranes.

Eyes: May causes severe irritation and burns

Skin: may cause skin burns and severe irritation..

Ingestion: May cause severe irritation to the GI tract. May be harmful if swallowed..

Inhalation: May cause respiratory tract irritation . may cause pulmonary

edema.

CHRONIC HEALTH HAZARDS: May cause dermatitis

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	RTECS
TEMED	110-18-9	>99%

Molecular Weight: 116.2
Molecular Formula: C₆H₁₆N₂

SECTION 4 FIRST AID MEASURES

Eyes: Immediately flush with plenty of water for at least 15 minutes.

GET MEDICAL ATTENTION

Skin: Immediately flush area with soap and water. Remove contaminated clothing. GET MEDICAL ATTENTION.

Inhalation: GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration.If breathing is difficult, give oxygen.

Ingestion: If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION. CALL POISON CENTER> Do Not induce vomiting.

SECTION 5 FIRE FIGHTING MEASURES

General Information: Flammable liquid . Use full protective gear. Combustion generates toxic fumes

Flammable: yes

Flash Point: 17.2 C

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 vermiculite, or sand. Collect with an electrically protected vacuum cleaner and place in container for disposal according to local regulations.

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. Keep away from ignition sources. Keep in flammable area.

SECTION 8 EXPOSURE CONTROLS/PERSONAL

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PROTECTION

Exposure limits: none listed

Use adequate ventilation. AVOID IGNITION SOURCES.

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.

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: REGULATED

US DOT: SHIPPING NAME: 1, 2-DI-(DIMETHYLAMINO)ETHANE, HAZARD CLASS 3, UN NUMBER : UN 2372, PACKING GROUP II

CANADA TDG: SHIPPING NAME: FLAMMABLE LIQUID, CORROSIVE NOS (TETRAMETHYLETHYLENEDIAMINE, HAZARD CLASS 3(8), UN NUMBER : UN 2924, PACKING GROUP II

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

European/International:

Hazard Symbol: F C

Risk Phrases;

R 11 Highly flammable

R 20/21 Harmful by inhalation and if swallowed

Safety Phrase:

S 16 Keep away from sources of ignition – No smoking

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S 45 In case of accident or if you feel unwell, seek medical advice immediately

Canada: WHMIS: **B/2, E**

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz

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 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Appearance/odor: clear/colorless, amine odor

pH: basic

Vapor density: 4.0

Vapor pressure: 3 mmHg

Viscosity: N/A

Freezing /Melting pt.: -67F

Boiling pt.: 250F

Decomposition temp: N/A

Solubility: soluble in water.

Specific Gravity: 0.777

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure

Conditions to avoid: IGNITION SOURCES, High temperatures.

Incompatibility: Strong oxidizing agents and reducing agents

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide,

Hazardous Polymerization: has not been reported

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:

Toxicity Data:

Oral mouse: ID50=630mg/kg

Oral rat: LD50=268 mg/kg

Inhalation rat: LC50 1318ppm/4h

Skin rabbit: LD50=5390 mg/kg

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