

SAFETY DATA SHEET

ACETONE

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: Acetone
Catalog Number: ACE777/ACE888

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:
Flammable liquids: (category 2)
Eye irritation (category 2A)
Specific target organ toxicity-single exposure (category 3), Central nervous System

Pictogram



Signal word DANGER

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)
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.
P303+P361+P353- IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water.
P305+P340+P312- IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Potential Health Effects

Target Organs: Central nervous system, respiratory tract, eyes, skin.

Eyes: Causes eye irritation. Contact with liquid or vapor causes irritation to

the eye, burning sensation, inflammation.

Skin: Absorbed through the skin. Causes dryness and cracking of the skin.

Ingestion: May cause severe and permanent damage to the respiratory tract. May cause irritation to GI tract. May cause CNS depression causing drowsiness and nausea.

Inhalation: Cause irritation to the respiratory tract. May cause unconsciousness and coma. May be fatal.

Chronic Health Hazards: Prolonged or repeated skin contact may cause dermatitis. Repeated inhalation may cause chronic bronchitis.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Acetone	67-64-1	99.0%

Molecular Formula: C₃H₆O

Molecular Weight: 58.08

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. Get medical attention if irritation persists.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. GET MEDICAL ATTENTION

SECTION 5 FIRE FIGHTING MEASURES

Extremely flammable liquid and vapor. Vapors can spread along ground and cause flash back. Containers can build up pressure when heated Cool with water.

Flammable: Yes

Flash Point: -20C

Autoignition Temperature: 465

Extinguishing Media: Use, foam, dry chemical or carbon dioxide.

Explosion Data: Lower: 2.5% Upper: 12.8%

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

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 spilling. Vapors can be hazardous.

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Storage Conditions: Room temperature. Keep away from ignition sources and from heat. Keep in well ventilated area. Store in tight containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

ACGIH: 500 ppm TWA, 750 ppm STEL

NIOSH: 250 ppm TWA, 590 mg/m³ TWA

OSHA: 1000 ppm TWA, 2400 mg/m³ TWA

Use adequate ventilation. Ventilation fans must be non-sparking.

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: Liquid

Appearance and Odor: clear/colorless, sweet odor.

Freezing/Melting Point: 94 °C

Boiling Point: 56°C

Specific Gravity: 0.788/cm³

Vapor Density: 2.00 (air=1)

Water Solubility: Miscible with water

pH: 7

Decomposition Temp: Not available

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal room temperature and pressures.

Conditions to avoid: high temperatures, ignition sources.

Incompatibility: strong oxidizing agents, strong reducing agents, strong bases, nitric acid, chloroform.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, acrid smoke and fumes.

Hazardous Polymerization: Has not been reported.

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:

Draize test, rabbit, eye, 20mg Severe.

Inhalation mouse, LC50+ 50100mg/m³/4H

Oral mouse: LD50=3g/kg

Epidemiology: No data available

Teratogenicity: Animal studies have shown some harmful effects on offspring.

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

Ecotoxicity: rainbow trout 5540 mg/L

Biodegrades rapidly. Should not pose serious threat to environment

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Ignitable waste.. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

US DOT: Acetone, PG II, Class 3, UN #,1090

Canada: Acetone, PG II, Class 3, UN #,1090

SECTION 15 REGULATORY INFORMATION

US: TSCA: listed

European/International: highly flammable, irritating to eyes. Keep away from sources of ignition.

Canada: WHMIS: B2, D2B

Listed on the Canadian Ingredient Disclosure List

SECTION 16 ADDITIONAL INFORMATION

Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
1	1	3	0

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

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