

# SAFETY DATA SHEET

## CHLOROFORM

### 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:** Chloroform  
**Catalog Number:** CCL402

### SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

Acute toxicity, Oral (Category 4)  
Acute toxicity, Inhalation (Category 3)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Carcinogenicity (Category 2)  
Reproductive toxicity (Category 2)  
Specific target organ toxicity - single exposure (Category 3), Central nervous system  
Specific target organ toxicity - repeated exposure (Category 1), Liver, Kidney,  
Acute aquatic toxicity (Category 3)

Pictogram



Signal word

DANGER

Hazard statement(s)

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer..  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs (Liver, Kidney) through prolonged or repeated exposure.

Precautionary statement(s)

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### Potential Health Effects

#### Effects of Acute Exposure:

**Routes of entry:** Eyes, skin, inhalation, Ingestion.

**Target Organs:** Central Nervous System, kidneys, blood, G.I. tract

**Eyes:** Causes eye irritation. Causes burning and reddening.

**Skin:** Causes skin irritation.. Absorbed through skin. Allergic reactions possible.

**Ingestion:** May be fatal if swallowed. Causes nausea, vomiting and diarrhea.

**Inhalation:** High concentrations may cause CNS effects. May cause dizziness, unconsciousness and coma. Large amounts may cause respiratory paralysis and death.

**CHRONIC HEALTH HAZARDS:** Possible cancer risk. May cause dermatitis. May cause reproductive effects. Prolonged exposure may cause liver, kidney and heart damage.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Chloroform:	67-66-3	>99.8

**Molecular Formula:** CHCl<sub>3</sub>

**Molecular Weight:** 119.36

### 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

**Flammable:** No

**Flash Point:** N/A

**Autoignition Temperature:** N/A

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

**Explosion Data:** N/A

### 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

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### 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.

**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:

**Exposure Limits:**

ACGIH: 10 ppm, OSHA C50 ppm; C240 mg/m<sup>3</sup>

NIOSH: 250 ppm TWA, 10 mg/m<sup>3</sup> TWA

OSHA: 1000 ppm TWA, 10 mg/m<sup>3</sup> 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, ethereal odor

**Freezing/Melting Point:** 98C

**Autoignition temp.:** N/A

**Viscosity:** 0.58 mPas

**Boiling Point:** 60.5-61.5° C

**Freezing:** -63° C

**Specific Gravity:** 1.492

**Vapor pressure:** 160 mbar

**Vapor Density:** 4.12 g/cm<sup>3</sup>

**Water Solubility:** slightly soluble

**pH:** N/A

**Flash point:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal room temperature and pressures.

**Conditions to avoid:** high temperatures, ignition sources.

**Incompatibility:**

Danger of explosion with: Alkali metals, Alkaline earth metals, peroxide compounds, Fluorine, alcoholates, strong alkalis, Sodium hydroxide, Methanol, alkali hydroxides, Alcohols, organic nitro compounds, alkali amides, Oxygen, bases, nitrogen oxides, Amines, Ammonia, Iron, in powder form, Aluminium, magnesium, metal alloys, sensitive to shock

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

**Hazardous Polymerization:** Has not been reported.

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**

Inhalation, rat: no data

LOEC- Dermal rabbit: 3980mg/kg

Oral, rat: LD50: **695 mg/kg**

**Epidemiology:** data available

**Teratogenicity:** data available

**Reproductive Effects:** suspected of damaging unborn child

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** listed by ACGIH, IARC, IOSH, NTP or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

No data available

### SECTION 13 DISPOSAL CONSIDERATION

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

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:**

**TDG (Canada)**

UN number: 1888 Class: 6.1 Packing group: III

Proper shipping name: CHLOROFORM

**IMDG**

UN number: 1888 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: CHLOROFORM

**IATA**

UN number: 1888 Class: 6.1 Packing group: III

Proper shipping name: Chloroform

### SECTION 15 REGULATORY INFORMATION

**US:** TSCA: listed

**European/International:** N/A

**Canada:**

Listed on the Canadian Ingredient Disclosure List

### SECTION 16 ADDITIONAL INFORMATION

**Hazard Rating System (estimated)**

NFPA	Health	Fire	Reactivity
	3	0	0

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

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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.