

SAFETY DATA SHEET

ETHANOL 2A, 85% (DENATURED)

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: Ethanol denatured
Catalog Number: ETH201

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Flammable liquid (Category 2)
Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation-(Category 3)
Acute toxicity, Dermal (Category 3)
Specific target organ toxicity-single exposure (Category 1)

Pictogram:



Signal word **DANGER**

Hazard statements:

H225- Highly flammable liquid and vapor
H301+H311+H331- Toxic if swallowed, in contact with skin or if inhaled.
H370- Causes damage to organs

Precautionary statements:

P210- Keep away from heat/sparks/open flames/hot surfaces- No smoking.
P233-Keep container tightly closed.
P280-wear protective gloves/ eye protection/ face protection.
P301-+P310+P330- IF SWALLOWED: Immediately call a POISON CENTRE/doctor. Rinse mouth.
P303+P340+P311- IF ON SKIN;(or hair); Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340+P311- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTRE/doctor.
P308+P311- If exposed or concerned. Call POISON CENTRE/doctor.
P403+P235- Store in a well ventilated place. Keep cool.

Effects of Acute Exposure:

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

Target Organs: Liver, Central Nervous System, kidneys, eyes.

Eyes: Cause eye irritation, redness and corneal injury. Vapors may cause irritation.

Skin: May cause skin irritation. Absorbed through skin. Allergic reactions possible.

Ingestion: May cause GI irritation, vomiting and diarrhea. May cause kidney damage.

Inhalation: May cause dermatitis.

CHRONIC: Prolonged exposure may cause damage to kidneys

SECTION 3: COMPOSITION/INGREDIENTS

	CAS #	%
Ethanol	64-17-5	approx. 85%
Methanol	67-56-1	approx. 15%
Ethyl acetate	141-78-6	≤0.95%

SECTION 4: FIRST AID MEASURES

Eyes: Flush eyes with water, GET MEDICAL ATTENTION. Do not rub eyes.

Skin: In case of contact, flush area immediately with water.

Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.

Ingestion: Wash mouth with water. DO NOT INDUCE vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5: FIRE FIGHTING MEASURES

General Information: Always wear full protective gear in the event of a fire. Vapors may form explosive mixture with air. Vapors can spread along the ground and create new sources of ignition and flash back.

Use water spray to cool fire-exposed containers.

Flash Point: 9.7C

Autoignition Temperature: 455.0 C

Explosion limits: Lower: 36(V) %, Upper 6% (V)

Extinguishing Media: **Small fires:** Use water spray, foam, dry chemical or carbon dioxide. **Large fires:** use alcohol resistant foam.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Absorb spill with inert material, like vermiculite. 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. Remove all sources of ignition. Reduce vapor and avoid ignition sources. Use non-combustible material to absorb liquid such as sawdust or vermiculite

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. Do not cut, weld or expose empty containers to any ignition source. Use adequate ventilation. Ground and bond containers when transferring material.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL

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PROTECTION

Exposure Limits:

Ethanol Canada: TWA: 1000ppm
Methanol, Canada:TWA 200 ppm
Eyes: wear chemical splash goggles.
Skin: wear rubber gloves and apron
Clothing: wear appropriate clothing to prevent exposure.
Respirators: OSHA approved : 29CFR 1910.134 or
European EN 149.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Appearance and Odor: Clear/colorless, alcohol like odor
Freezing/Melting Point: 98C
Autoignition temp.: 363C
Viscosity: 0.55 mPas
Boiling Point: 76.3C
Specific Gravity: 0.785
Vapor pressure: 44.6 mm Hg
Vapor Density: 1.59 g/cm³
Water Solubility: Soluble
pH: N/A

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure
Vapors may form explosive mixture in air.
Conditions to avoid: ignition sources, high temperatures, sparks, confined spaces.
Incompatibility: Oxidizing and reducing agents, acids and alkali metals. Acid chlorides
Hazardous Decomposition Products: carbon monoxide, carbon dioxide
Hazardous Polymerization: has not been reported.

SECTION 11 TOXICOLOGICAL PROPERTIES

Toxicological Information:

Ethanol: Oral, rat: LD50=7060 mg/kg - 20,000 ppm/10h rat
Methanol:Oral, rat: LD50=5628mg/kg - 64,000 ppm/4H rat
Carcinogenicity: Not listed by ACGIH, IARC, IOSH, NTP or OSHA

Epidemiology: no data
Teratogenicity: No data available
Reproductive Effects: no data.
Neurotoxicity: No data available
Mutagenicity: no data\
Causes damage to organs

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Rainbow trout: 8000 mg/L 48 hr. Flathead minnow: 29 g/L 96hr.
Environmental: Toxic to aquatic life. Biodegradable in soil and water.

SECTION 13 DISPOSAL CONSIDERATION

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

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

US Dot
UN number: 1170 Class: 3 Packing group: II
Proper shipping name: Ethanol
Reportable Quantity (RQ):
Marine pollutant: No
Poison Inhalation Hazard: No
IMDG
UN number: 1170 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ETHANOL
Marine pollutant: No
IATA
UN number: 1170 Class: 3 Packing group: II
Proper shipping name: Ethanol

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

.Canada:
WHMIS Classification: B2, D2B

SECTION 16 ADDITIONAL INFORMATION

N/A

Prepared By: M.Kierdelewicz (President)
Date Prepared: Oct 6/2022
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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.

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