



SAFETY DATA SHEET (SDS)

Complies with OSHA's Hazard Communication Standard 2012 and the Global Harmonized Standard (GHS).

Section 1: Identification

Product Identification: Burning Alcohol - Denatured Ethanol Item Number: 4132-663

Manufactured by:

Benco Dental
295 Centerpoint Blvd.
Pittston, PA 18640
1-800-462-36260

Emergency Tel:

CHEMTREC - 24-Hour Hazmat Emergency Communications Center

Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887

Recommended use: Fuel for dental torches.

Section 2: Hazard(s)

Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 4), H302

Specific target organ toxicity - single exposure (Category 1), H370

GHS Label elements, including precautionary statements:

Pictogram

Signal word: Danger



Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H370 Causes damage to organs.



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Precautionary Statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.

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Section 2 cont--

- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P330 Rinse mouth.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3: Composition / information on Ingredients

Hazardous Ingredient(s)	CAS #	Exposure PEL, TLV, TWA	%
(1) Ethyl Alcohol	[64-17-5]	1000 ppm / 1000 ppm	90.0
(2) Methyl Alcohol	[67-56-1]	200 ppm / 200 ppm	4.5
(3) Methyl Isobutyl Ketone	[108-10-1]	50 ppm / 50 ppm	0.99
(4) Ethyl Acetate	[141-78-6]	400 ppm / 400 ppm	4.6

Section 4: First-aid measures

EMERGENCY FIRST AID PROCEDURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.



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If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact :Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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Section 5 : Fire-fighting measures

Flash Point : 52 F, TCC

Flammable limits: LEL : 3.3 UEL : 19.0

Extinguishing media: Water spray, CO₂, Dry Chemical

Unusual fire and explosion hazards: FLASH FIRE HAZARD. Cool containers exposed to flame/heat with water.

Special Fire Fighting Procedure: Clear area of unprotected personnel. Do not enter confined fire space. Helmet with face shield, bunker coats, and rubber boots. Firefighters should be equipped positive pressure, self-contained, NIOSH approved breathing apparatus to protect against potentially toxic and irritating fumes.

Section 6 : Accidental release measures

Personal precautions: Use personal protection per Section 8.

Environmental precautions: Keep from contaminating soils and waterways.

Methods for cleaning up: Extinguish all ignition sources. Soak up an absorbent such as clay, sand, or other appropriate material. Vapors may accumulate and travel to distant ignition sources. FLASH FIRE HAZARD. Suppress vapor cloud with water fog. Contain all runoff.

Section 7 : Handling and storage

Handling: Use in well ventilated areas. Avoid contact with eyes, and **DO NOT** inhale vapor.

Advice on protection against fire and explosion: Product is flammable. **Storage:** Store in well ventilated areas at ambient temp. Advice on common storage: **Do not store next to strong oxidizers and acids.**

Section 8 : Exposure control / personal protection

Engineering Measures: Provide normal room ventilation.



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Personal Precautions: Use protective clothing as specified below.

Eye Protection: Use safety goggles or approved safety glasses.

Hand Protection: Use protective gloves and discard after contact with product.

Skin and body protection: Pants, long sleeves, clinical jacket.

Respiratory protection: Use approved respirator either full face atmosphere supplying or air purifying.

Hygiene measures: Wash hands after using. Emergency eye wash station must be available.
Launder contaminated clothing.

Section 9 : Physical chemical properties

Boiling Point : 167-176 F Specific Gravity : > 0.7989 - 0.8177 @ 20C Vapor Pressure: (mm Hg) 45 @ 68 F

Melting Point : N/A Evaporation Rate : (n-butyl = 1) 1.4 Vapor Density : (Air = 1) 3

Solubility in Water : Complete

Appearance and Odor: Clear, colorless liquid with alcohol odor.

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Section 10 : Stability and reactivity

Materials to avoid: Avoid contact with strong oxidants, silver salts, acid chlorides, alkali metals, metal hydrides, hydrazine, and many other substances.

Hazardous decomposition products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous reactions: Will evolve gases if mixed with strong oxidizing agents and acids.

Section 11 : Toxicological information

Acute oral toxicity:

Ethyl alcohol: oral rat LD50= 7060mg/kg; inhalation rat LC50= 20,000ppm/10H; investigated as a tumorigen, mutagen, reproductive effector.

Methyl alcohol: oral rat LD50= 5628mg/kg; inhalation rat LC50= 64000ppm/4H; skin rabbit LD50= 15800mg/kg; investigated as a tumorigen, mutagen, reproductive effector.

Ethyl acetate: oral rat LD50= 5620mg/kg; inhalation rat LC50= 200gm/m³; skin rabbit LD50= > 20ml/kg; investigated as a mutagen.

Methyl isobutyl ketone: oral rat LD50= 2080 mg/kg; skin rabbit LD50= > 20ml/kg; investigated as a reproductive effector.

Reproductive Toxicity: Ethanol has been linked to birth defects in humans.

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Not listed as a carcinogen by OSHA, IARC, AGCIH, or NTP.

Section 12 : Ecological information

This material is not expected to be toxic to aquatic life. For ethanol, methanol, ethyl acetate and methyl isobutyl ketone: The LC50/96-hour values for fish are over 100 mg/l.

Section 13 : Disposal consideration

Waste/Disposal Information: Observe all Federal, State, and Local Environmental Regulations when disposing of this product.

Use and or alterations to this product such as mixing with other materials/chemicals may significantly change the characteristics of the material and alter product hazard classifications and the proper disposal method.

Local disposal regulations Not available.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers may retain some product residues. This material and its container must be disposed of in a safe manner.

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Section 14 : Transport information

Product is classified as a Hazardous Material:

DOT (US) Proper Shipping Name: Alcohols, N.O.S.

Hazard Class: 3

UN/NA: UN 1170

Packing Group: II

Information reported for product/size: 32 Ounce containers meet quantity exception under CFR 49 when shipped as ORM-D.

IMDG

UN number: 1170 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: ETHANOL SOLUTION

Marine pollutant: No

ATA

UN number: 1170 Class: 3 Packing group: II

Proper shipping name: Ethanol solution



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Section 15 : Regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:
Methanol

CAS-No.67-56-1 Revision Date 2007-07-01

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Methanol CAS-No.67-56-1 Revision Date 2007-07-01
Ethanol 64-17-5 2007-03-01

Pennsylvania Right To Know Components

Methanol CAS-No. 67-56-1 Revision Date 2007-07-01
Ethanol 64-17-5 2007-03-01

New Jersey Right To Know Components

Methanol CAS-No. 67-56-1 Revision Date 2007-07-01
Ethanol 64-17-5 2007-03-01

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Methanol CAS-No. 67-56-1 Revision Date 2012-03-16

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Section 16 : Other information

HMIS Rating

Health hazard: 2
Chronic Health Hazard: *
Flammability: 3
Physical Hazard 0

NFPA Rating

Health hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0

Date prepared: February 2015

Revision: 1.01A



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Information contained herein is furnished without warranties of any kind. Users should consider these data only as supplements to other information obtained by them and must make independent determinations of completeness and suitability of information from all sources to ensure proper disposal and use of materials for the safety and health of both employees and customers.