

BBC Biochemical MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: 100% Ethyl Alcohol (Denatured)	Code: 9510
Supplier: BBC Biochemical	MSDS#: 9510
Synonym: None.	Validation Date: 02-20-09
Trade Name: None.	Print Date: 02-20-09
Material Uses: Dehydrating solution.	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477

Section 2. Composition and Information on Ingredients

Name	CAS#	OSHA PEL/TWA	Exposure Limits
1) Denatured Ethanol Mixture	64-17-5	1000 ppm	None established
•Isopropanol	67-63-0	N/A	None established
•Methanol	67-56-1		

Section 3. Hazards Identification

Physical State and Appearance	Colorless liquid with characteristic alcoholic odor.
Emergency Overview	Not available.
Routes of Entry	Inhalation, ingestion, and skin absorption.
Potential Acute Health Effects	
Eyes	Irritation.
Skin	Irritation.
Inhalation	May cause dizziness, headache, nausea, and narcosis.
Ingestion	May cause blindness, nausea, damage to gastrointestinal tract, liver, kidneys, and cardiovascular system.
Potential Chronic Health Effects	Components not listed (IARC, NTP, OSHA) as cancer causing agents.
Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms	Kidney, liver, heart, and GI conditions.

Section 4. First Aid Measures

Eye Contact	Immediately flush thoroughly with water for at least 15 minutes.
Skin Contact	Wash thoroughly with water.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	If conscious, drink water. Seek medical attention. Do not induce vomiting.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable.
Auto-ignition Temperature	Not available.
Flash Points	About 55° F
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in	Not available.

Presence of Various Substances

Fire Fighting Media and Instructions Dry chemical, carbon dioxide, alcohol foam. Use water spray to cool fire-exposed containers and disperse vapors.

Protective Clothing (Fire) Fire fighters should use self-contained breathing apparatus and protective clothing.

Special Remarks on Fire Hazards Vapor can travel distances to ignition source and flash back.

Special Remarks on Explosion Hazards

Section 6. Accidental Release Measures

Small Spill and Leak Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

Large Spill and Leak Same as above.

Section 7, Handling and Storage

Handling Use adequate ventilation. Avoid repeated or prolonged skin contact or breathing of vapors. Do not breathe vapors. Do not get in eyes.

Storage Store and use in areas away from heat, sparks, and open flame. Store in tightly closed containers in a cool, dry, well-ventilated, fire-resistant area. Store away from oxidizing agents.

Section 8. Exposure Controls / Personal Protection**Engineering Controls****Personal Protection**

Eyes Safety glasses with approved side shields should be worn at all times.

Body Protective clothing, such as a lab coat, to minimize skin contact.

Respiratory Use NIOSH or MSHA approved respirators in absence of proper environmental control.

Hands Neoprene, Nitrile or equivalent protective gloves.

Feet Impervious footwear should be worn to prevent skin contact.

Personal Protection in

Case of a Large Spill See above.

Product Name Exposure Limits

- 1)
- 2)
- 3)

Consult Local authorities before acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Colorless liquid.	Odor:	Characteristic alcoholic odor.
Molecular Weight	Not applicable.	Taste:	Vinous.
Molecular Formula	Not applicable.	Color:	Colorless.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	173° F		
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	Not applicable.		
Vapor Pressure	Not applicable.		
Vapor Density	Not applicable.		
Volatility	Not applicable.		
Odor Threshold	Not applicable.		
Evaporation Rate	Not applicable.		
VOC	Not available.		
Viscosity	Not available.		
Ionicity (in water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Complete in water.		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity Stable.

Conditions of Instability Heat.

Incompatibility with Oxidizers.

Various Substances

Hazardous Decomposition Products Thermal-oxidative degradation can produce oxides of carbon. Toxic gases and vapors (i.e. carbon monoxide, formaldehyde) may be released in a fire.

Hazardous Polymerization Does not occur.

Section 11. Toxicological Information

Toxicity to Animals LD50: Not available.

LC50: Not available.

Chronic Effects on Humans This product contains the following toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS #

Chemical Name

DeMinimis/SARA 313%

NONE

Other Toxic Effects on Humans

Special Remarks on Toxicity to Animals Not available.

Special Remarks on Chronic Effects on Humans Not available.

Special Remarks on Other Toxic Effects on Humans Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BODS and COD Not available.

Biodegradable/OEDC Not available.

Mobility Not available.

Toxicity of the Products of Biodegradation Not available.

Special Remarks on The Products of Biodegradation Not available.

Section 13. Disposal Considerations

Waste Information Not available.

Waste Stream Not available.

Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification Flammable liquid, UN1170, Ethanol, 3, II

Marine Pollutant Not available.

Hazardous Substances Reportable Quantity Not available.

Special Provisions for Transport Not applicable.

TDG Classification Flammable liquid, UN1170, Ethanol, 3, II

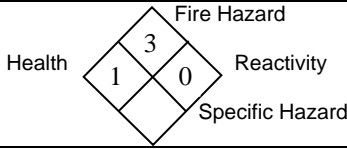
ADR/RID Classification ADR (Europe) Information not available.

IMO/IMDG Classification IMDG Information not available.

ICAO/IATA Classification See IATA Regulations Flammable liquid, UN1170, Ethanol, 3, II

Section 15. Other Information

Label requirements

Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Fire Hazard	3		
	Reactivity	0		
	Personal Protection			

References

Other Special Considerations

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.