

# BBC Biochemical MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Information

Common Name: Cyto Lyse	Code: MA0202001
Supplier: BBC Biochemical	MSDS#: MA0202001
Synonym: None.	Validation Date: 4-17-09
Trade Name: None.	Print Date: 4-17-09
Material Uses: Not available.	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) Ethyl Alcohol	64-17-5	1000 ppm	None established
2) Ethylene Glycol	102-21-7	N/A	
3) Selected Denaturants	N/A	N/A	
4) Water	7732-18-5	N/A	

## Section 3. Hazards Identification

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

## Section 4. First Aid Measures

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

## Section 5. Fire Fighting Measures

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

<b>Explosion Hazards in Presence of Various Substances</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Dry chemical, carbon dioxide, alcohol foam. Use water spray to cool fire-exposed containers and disperse vapors.
<b>Protective Clothing (Fire)</b>	Fire fighters should use self-contained breathing apparatus and protective clothing.
<b>Special Remarks on Fire Hazards</b>	Vapor can travel distances to ignition source and flash back.
<b>Special Remarks on Explosion Hazards</b>	

### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.
<b>Large Spill and Leak</b>	Same as above.

### Section 7, Handling and Storage

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

<b>Eyes</b>	Safety glasses with approved side shields should be worn at all times.
<b>Body</b>	Protective clothing, such as a lab coat, to minimize skin contact.
<b>Respiratory</b>	Use NIOSH or MSHA approved respirators in absence of proper environmental control.
<b>Hands</b>	Neoprene, Nitrile or equivalent protective gloves.
<b>Feet</b>	Impervious footwear should be worn to prevent skin contact.

#### Personal Protection in

**Case of a Large Spill** See above.

Product Name	Exposure Limits
1) Ethyl Alcohol	OSHA PEL 1000ppm TWA
2)	
3)	

Consult Local authorities before acceptable exposure limits.

### Section 9. Physical and Chemical Properties

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

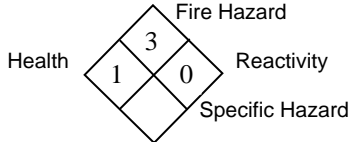
### Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	Stable.
<b>Conditions of Instability</b>	Heat.



**Section 15. Other Information**

**Label requirements**

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

**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.*