

**SECTION I - PRODUCT IDENTIFICATION**

**Product Name:** Gastrocult® Developer  
**Product Number:** 66000 Series  
**Manufacturer:** Beckman Coulter, Inc.  
**Telephone Number:** (650) 857-1227, (800) 877-6242  
**Address:** 1050 Page Mill Road, Bldg. 2B  
 Palo Alto, CA 94304  
**24 hr. Emergency Contact:** (CHEMTREC) 1-800-424-9300  
**Chemical Name and Synonyms:** N/A  
**Chemical Family:** Alcoholic solution

**SECTION II - HAZARDOUS INGREDIENTS**

<u>Ingredient Name:</u>	<u>*CAS No.</u>	<u>%</u>	<u>Exposure Limits (8 hr TWA)</u>
Ethyl Alcohol	64-17-5	30%	1880 mg/cubic Meter (ACGIH)
Methyl Alcohol (Denaturant)	67-56-1	3%	260 mg/cubic M (US OSHA)
Hydrogen Peroxide	7722-84-1	3%	1.4 mg/cubic M (ACGIH)

**SARA 313 Status:** Methyl Alcohol and Hydrogen Peroxide are listed.  
**Carcinogen Status:** No components in this mixture are listed as carcinogens by IARC, NTP or US OSHA.

\*CAS No. 8013-52-3, representing a mixture of Ethyl Alcohol and Methyl Alcohol, is used on the product bottle label in place of 64-17-5 and 67-56-1.

**SECTION III - PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point:** <100°C approx.  
**Vapor Pressure (mm Hg):** Approx 18 mm Hg@ 19°C  
**Vapor Density (Air=1):** 1.6  
**Specific Gravity (H<sub>2</sub>O)=1):** 0.9  
**% Volatile by volume:** >85  
**Evaporation Rate:(H<sub>2</sub>O)=1):** >1  
**Solubility in water:** Soluble  
**Description:** Clear, colorless liquid; pungent alcoholic odor

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

**(Ethanol) Flammable Limits (%):** LEL: 3.3% UEL: 19%  
**Flash Point:** 21°C (Closed Cup)  
**Extinguishing Media:** Water, CO<sub>2</sub>, Dry Chemical, Foam, or Halon, as suitable for surrounding fire.  
**Special Fire Fighting Procedures:** Toxic gases including CO, acrid smoke and irritating fumes are expected in fires of this material. Self-contained breathing apparatus recommended for firefighters.  
**Unusual Fire and Explosion Hazards:** Vapor heavier than air.

**SECTION V - REACTIVITY DATA**

**Stability:** Stable under normal temperatures and pressures.  
**Incompatibility:** Incompatible with common lab materials such as aluminum, chlorine, chloroform, acetone, conc. nitric acid, nitrogenous bases, strong oxidizers or reducing agents.  
**Conditions to Avoid:** Liquid or vapor can be ignited by heat, sparks, flames or strong oxidizers.  
**Hazardous Decomposition Products:** None under normal temperatures and pressures.

**SECTION VI - HEALTH HAZARD INFORMATION**

**Potential Routes of Entry:** Eyes, Absorption through Skin, Inhalation  
**Effects of Acute Exposure - Eyes:** Severe irritation or injury possible following direct contact with liquid or vapor.  
**First Aid:** Wash eyes with water for at least 15 minutes then obtain immediate medical assistance.  
**Skin:** Irritation and temporary bleaching of skin can occur following direct contact.  
**First Aid:** Wash affected area with soap and water. Remove contaminated clothing. Seek medical attention if irritation occurs.  
**Inhalation:** Severe pulmonary irritation and general toxicity following exposure can occur.  
**First Aid:** Move exposed subject to fresh air. Refer to a physician if subject experiences difficulty breathing.  
**Ingestion:** Extreme toxicity is not expected following ingestion based on animal studies. However, direct contact with mucous membranes may produce injury to the mouth and throat, nausea, vomiting, sweating or diuresis. Estimated LD<sub>50</sub> (Rat) is >2000 mg/Kg.  
**First Aid:** If ingested, wash out mouth with water. Do not induce vomiting. Seek medical assistance immediately.  
**Effects of Chronic Exposure - Eyes:** Prolonged exposure to liquid or vapors can cause corneal damage resulting in visual impairment.  
**Skin:** Repeated exposure can cause dermatitis. Prolonged exposure can cause burns, ulceration, pain, and skin discoloration. **Inhalation or Ingestion:** Repeated and prolonged exposure could result in blindness, central nervous system, cardiovascular, liver, gastrointestinal or blood disorders.  
**Symptoms of Overexposure - Eyes:** Redness, swelling, tears, blurred vision, pain. **Skin:** Redness, swelling, burning, pain, ulceration. **Inhalation:** Coughing, sore throat, shortness of breath, dizziness, vomiting, convulsions, impaired vision or blindness, signs of alcohol intoxication.

**Ingestion:** Burning sensation, nausea, vomiting, sweating, diuresis, convulsions, impaired vision or blindness, signs of alcohol intoxication.

**Medical Conditions Which May Be Aggravated By Exposure:** Individuals suffering from asthma, hypertension, liver or kidney disorders or taking centrally acting drugs or alcoholic beverages could be sensitive to the toxic effects of this mixture.

#### **SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURES**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb on inert material and/or flush with water.

**Waste Disposal:** Dispose of in accordance with local, state and federal regulations.

#### **SECTION VIII - SPECIAL PROTECTION INFORMATION**

**Ventilation:** Use in a well ventilated area.

**Respiratory Protection:** Not required.

**Eye Protection:** Wear chemical splash goggles or glasses to avoid eye contact.

**Skin Protection:** Wash hands and arms thoroughly after handling this material.

Clean up spills immediately. Wear butyl rubber or other alcohol impermeable gloves to protect sensitive skin.

**Other Protective Equipment:** Wear protective clothing with long sleeves to avoid skin contact. An eye wash station should be available.

#### **SECTION IX - SPECIAL PRECAUTIONS**

**Precautions To Be Taken In Handling And Storing:** Store away from heat or sources of ignition.

**Recommended Storage Conditions:** Store in original container at controlled room temperature (15 to 30°C, 59 to 86°F).

#### **SECTION X - LABELING INFORMATION**

**Hazard Communication Label:** Warning! Flammable, protect from heat; keep bottles tightly capped. Do not use in eyes. If eye or skin is contacted, wash promptly with water.

**DOT Label(s):** Flammable Liquid

**Proper Shipping Name:** Ethanol Solutions

**U.N. Number:** 1170

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Beckman Coulter, Inc.  
Palo Alto, CA 94304

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**Beckman Coulter, Inc.  
Material Safety Data Sheet**

**Gastrocult® Developer  
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