

**MATERIAL SAFETY DATA SHEET**  
 OSHA " Hazard Communication Standard " (29 CFR 1910.1200)

**Section 1 Manufacturer and Product**

Becton Dickinson Microbiology Systems  
 250 Schilling Circle  
 Cockeysville, Maryland 21030

Telephone : For information (410)771-0100  
 For emergency (410)584-8987

Product Name and Catalog Number  
 Gram Decolorizer Solution

Catalog Number 12295, 12300,  
 12297

**Section 2 Hazardous Ingredients**

1. Hazardous Chemical: Ethyl Alcohol  
 (Synonym): Ethanol  
 Percent 75.0%

Exposure Limit TLV: 1000 ppm  
 PEL: 1000 ppm  
 CAS Number: 64-17-5  
 Toxicity Data: Man (oral):TDLo 50 mg/Kg GIT

2. Hazardous Chemical: Acetone  
 (Synonym): Pyroacetic ether

Exposure Limit TLV: 1000 ppm  
 PEL: 1000 ppm  
 CAS Number: 67-64-1  
 Tox. Data: Rat (oral): LD50: 9750 mg/kg

**Section 3 Physical Data**

	<u>Ethanol</u>	<u>Acetone</u>	<u>Product</u>
Boiling Point:	78.3	56.0	Not Determined
Vapor Pressure (mmHg):	44	400@39.5 C	Not Determined
Vapor Density (Air = 1):	1.8	2.0	Not Determined
Specific Gravity (H2O = 1):	0.79	0.79	Not Determined
% Volatile By Volume:	100	100	Not Determined
Evaporation Rate (BuAc = 1):	1.4	1.7	Not Determined
Product Appearance and Odor:	Clear colorless liquid with odor typical of ethanol.		
Product Solubility In Water:	Complete		

**Section 4 Fire and Explosion Data**

	<u>Ethanol</u>	<u>Acetone</u>	<u>Product</u>
Flash Point:	55.6 F	0 F (CC)	Not Determined
Flammable Limits (LEL/UEL):	3.3/19.0	2.6/12.8	2.6/19.0
Extinguishing Media:	Dry chemical, carbon dioxide alcohol foam, waterspray		
Special Procedures/ Unusual Hazards:	Product is a flammable liquid and should not be exposed to heat or other ignition sources. Fires should be extinguished using a blanketing technique to smother flame.		

## Section 5 Health Hazard Data

### Component: Ethanol

Routes of Entry: Eye, skin, inhalation ingestion

Health Hazards (acute)

Eye - Can cause burning and/or stinging sensation. Severity depends upon concentration.

Skin - May cause defatting and/or dermatitis.

Inhalation (5,000 ppm) - Can cause stupor and sleepiness.

Ingestion - Initially a mental stimulant then excitement, impaired vision.

Carcinogenicity - Not listed by NTP, IARC or OSHA.

Medical Conditions Aggravated by Exposure (Chronic): Not Determined.

Emergency First Aid :

Eye - Immediately flush eyes, including area under the eyelids, with copious amounts of water for at least fifteen minutes. Seek medical attention.

Skin - Wash affected area with soap and water.

Inhalation - Remove victim to fresh air and support breathing if necessary.

Ingestion - Give three glasses of water to dilute. Seek medical attention.

### Component: Acetone

Routes of Entry: Eye, skin, inhalation, ingestion.

Health Hazards (Acute):

Eye - Vapors may cause irritation. Liquid may cause permanent eye damage.

Skin - May cause defatting and/or dermatitis.

Inhalation - May irritate respiratory tract.

Ingestion - May cause irritation of GI tract.

Carcinogenicity - Not listed by NTP, IARC or OSHA.

Medical Conditions Aggravated by Exposure (Chronic): Not determined.

Emergency First Aid Procedures:

Eyes - Immediately flush eyes, including area under the eyelids, with copious amounts of water for at least fifteen minutes.

Skin - Flush the affected area with running water for at least fifteen minutes.

Inhalation - Remove to fresh air and support breathing as needed.

Ingestion - Give victim milk or water to dilute. Seek immediate medical attention.

## Section 6 Reactivity Data

	<u>Ethanol</u>	<u>Acetone</u>	<u>Product</u>
Stable/Unstable:	Stable	Stable	Stable
Conditions to Avoid:	Heat, Nitrates	Heat	Heat
Materials to Avoid:	Aluminum	Oxidizers	Oxidizers
Hazardous			
Polymerization:	Will not occur	Will not occur	Will not occur

## Section 7 Spill and Waste Procedures

**Spill:** Wear gloves. Use paper towels to absorb liquid. Allow towels to dry in fume hood and dispose of with normal laboratory trash.

**Waste Disposal:** Material is a hazardous waste. Material must be disposed of by a permitted hazardous waste disposal company. Follow all current Federal, State, and local regulations.