

B-12300

LAB

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

**Section 1 Manufacturer and Product**

**Becton Dickinson Microbiology Systems**  
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Cockeysville, Maryland 21030

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**Product Name and Catalog Number**  
Gram Decolorizer Solution

Catalog Number 12300

**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

Percent 25.0%

**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.

## Section 8 Special Protection Information

Respiratory Protection: Not required under normal product usage.

Ventilation: General and/or local exhaust to meet TLV requirements. When product is used as directed, exposure limits are not expected to reach the TLV.

Protective Gloves: Latex gloves recommended but not required.

Eye Protection: Safety Glasses. Contact lenses should not be worn while working with this material.

Other Protective Equipment: Eyewash stations should be readily available.

## Section 9 Special Precautions/Comments

Date of Preparation \_\_\_\_\_ 1/21/91 \_\_\_\_\_

Date of Revision \_\_\_\_\_ 3/24/94 \_\_\_\_\_

By \_\_\_\_\_ Dale M. Olson \_\_\_\_\_

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