

MATERIAL SAFETY DATA SHEET

OSHA "Hazard Communication" (29 CFR 1910.1200)

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SECTION I—MANUFACTURER AND PRODUCT

Becton Dickinson Microbiology Systems
 50 Schilling Circle
 Cockeysville, Maryland 21030
 Telephone For Information: (301) 771-0100
 For Emergency: (301) 584-7169

Product Name and Catalog Number
Gram Decolorizer Solution
 Catalog #12295, 12300, 12297

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SECTION II—HAZARDOUS INGREDIENTS

Hazardous Chemical Name (Synonym)	Exposure Limit, Toxicity Data, CAS Number
Ethanol (Ethyl Alcohol)	75 TLV: 1000 ppm; PEL: 1000 ppm; CAS #64-17-5; Tox. Data: Man (Oral); TDL: 50 mg/Kg GIT
Acetone (Pyroacetic ether)	25 TLV: 750 ppm; PEL: 1000 ppm; CAS #67-64-1; Tox. Data: Rat (Oral); LD50: 9750 mg/Kg

SECTION III—PHYSICAL DATA

Product Component	Boiling Point °C	Vapor Pressure mm-Hg	Vapor Density Air = 1	Product Appearance and Odor
Ethanol	78.3	44	1.6	Clear colorless liquid with odor typical of ethanol.
Acetone	56.0	180	2.0	
	Sp. Grav. (H ₂ O = 1)	% volatile By Volume	Evaporation Rate (Butyl Acetate = 1)	Product Solubility in Water
Ethanol	0.79	100	1.4	Complete
Acetone	0.79	100	1.7	Complete

SECTION IV—FIRE AND EXPLOSION HAZARD DATA

Mixture Component	Flash Point (Method)	Flammable Lim % Lel % Uel %	Extinguishing Media	Special Fire Fighting Procedures or Unusual Fire and Explosion Hazards
Ethanol	50-55°F (TCC)	1.3 19.0	Dry Chemical, Carbon Dioxide, Alcohol Foam, Water Spray	Product is a flammable liquid and should not be exposed to heat or ignition sources. Fires should be extinguished using a blanketing technique to smother flame.
Acetone ethanol	-4°F (TCC)	2.8 12.8	Alcohol Foam, Water Spray	Product is a flammable liquid and should not be exposed to heat or ignition sources. Fires should be extinguished using a blanketing technique to smother flame.

SECTION V—HEALTH HAZARD DATA

Component	Routes of Entry, Inhalation, Ingestion, Skin	Health Hazards
Ethanol	Inhalation, Ingestion, Skin	<p>Health Hazards:</p> <p>Eyes - can cause burning and stinging sensation</p> <p>Inhalation (5000 ppm) - cause drowsy and sleepiness</p> <p>Ingestion - irritate a stomach and then mental excitement</p> <p>Impaired vision</p> <p>Skin - can cause dermatitis and dermatitis</p> <p>Carcinogenicity: Not listed by NTP, IARC or OSHA</p> <p>Medical Conditions Aggravated by Exposure: Not Determined</p> <p>Emergency First Aid: Eyes - flush with water for 15 minutes. Skin wash with soap and water. Ingestion - give victim milk or water. Contact a Poison Control Center.</p>

Component	Routes of Entry, Inhalation, Ingestion, Skin	Health Hazards
Acetone	Inhalation, skin, ingestion	<p>Health Hazards:</p> <p>Eyes - vapors may cause irritation. liquid may cause eye damage</p> <p>Inhalation - may irritate respiratory tract.</p> <p>Skin - prolonged or repeated dryness and mild dermatitis</p> <p>Ingestion - may cause irritation of GI tract</p> <p>Carcinogenicity: Not listed by NTP, IARC or OSHA</p> <p>Signs and Symptoms of Exposure: Eyes - stinging or burning sensation</p> <p>Inhalation - dryness in mouth, coughing, headache. Skin - dryness or skin irritation; ingestion - nausea</p> <p>Medical Conditions Aggravated by Exposure: Not Determined</p> <p>Emergency First Aid: Eyes - flush with water for 15 minutes if irritation persists. see medical attention; Skin - flush exposed skin with running water for 15 minutes; Inhalation - remove to fresh air; Ingestion - give victim milk or water. Contact a Poison Control Center.</p>

SECTION VI—REACTIVITY DATA

Product Component	Stable Unstable	Conditions to Avoid	Incompatibility Materials to Avoid	Hazardous Polymerization
Ethanol	Stable	Nitrate Peroxides Elevated Temperature Open Flame	Alkali metals - reacts to liberate hydrogen Chromic anhydride, hydrogen peroxide, concentrated sulfuric acid	Will not occur.
Acetone	(see comment)			

SECTION VII—SPILL OR LEAK PROCEDURES

Spill:
 Absorb small spills on paper towels, evaporate to dryness in fume hood. Dispose of with lab trash after paper towels have dried.

Waste Disposal:
 Waste material can be burned in a suitable incinerator or disposed of by a permitted hazardous waste disposal company. Follow all Federal, State and local regulations.

SECTION VIII—SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required under normal product usage.

Ventilation: General and local to meet TLV requirements. When product is used as directed, exposure limit is not expected to reach the TLV.

Protective Gloves: Not required under normal product usage.

Eye Protection: Safety glasses, eyewash stations should be available.

Other Protective Equipment: Not required under normal product usage.

SECTION IX—SPECIAL PRECAUTIONS/COMMENTS

This is stable material in closed containers at room temperature under normal storage and handling conditions. (OSHA class 1B flammable liquid).

Date of Preparation: 12/1/91

By: Dale M. Owen

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