

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)	1.1 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	Eyes - can cause burning and stinging sensation Inhalation (5000 ppm) - cause drowsiness and sleepiness Ingestion - irritate stomach and then mental excitement Skin - can cause dermatitis and dermatitis Carcinogenicity: Not listed by NTP, IARC or OSHA Medical Conditions Aggravated by Exposure: Not Determined 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.

Component	Routes of Entry, Inhalation, Ingestion, Skin	Health Hazards
Acetone	Inhalation, skin, ingestion	Eyes - vapors may cause irritation, liquid may cause eye damage Inhalation - may irritate respiratory tract. Skin - prolonged or repeated dryness and mild dermatitis Ingestion - may cause irritation of GI tract Carcinogenicity: Not listed by NTP, IARC or OSHA Signs and Symptoms of Exposure: Eyes - stinging or burning sensation Inhalation - dryness in mouth, coughing, headache. Skin - dryness or skin irritation; ingestion - nausea Medical Conditions Aggravated by Exposure: Not Determined 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.

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	Stable (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. Jones

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