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B1092-1 (KIT)  
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# MATERIAL SAFETY DATA SHEET

OSHA "Hazard Communication" (29 CFR 1910.1200)

## SECTION I—MANUFACTURER AND PRODUCT

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

**Product Name and Catalog Number**  
Gram Crystal Violet Solution  
Catalog #12293, 12297, 12298, 12405  
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## SECTION II—HAZARDOUS INGREDIENTS

| Hazardous Chemical Name<br>(Synonym) | %  | Exposure Limit, Toxicity Data,<br>CAS Number                                              |
|--------------------------------------|----|-------------------------------------------------------------------------------------------|
| Ethanol (Ethyl Alcohol)              | 12 | TLV: 1000 ppm; PEL: 1000 ppm;<br>CAS #64-17-5; Tox. Data: Man<br>(oral) TDLo 50 mg/Kg GIT |

## SECTION III—PHYSICAL DATA

| Product Component | Boiling Point °C                 | Vapor Pressure (mmHg) | Vapor Density (Air = 1)              | Product Appearance and Odor              |
|-------------------|----------------------------------|-----------------------|--------------------------------------|------------------------------------------|
| Ethanol           | 78.3                             | 44                    | 1.6                                  | Dark purple solution with aromatic odor. |
| Product           | Not Determined                   | Not Determined        | Not Determined                       |                                          |
|                   | Sp. Grav. (H <sub>2</sub> O = 1) | % Volatile By Volume  | Evaporation Rate (Butyl Acetate = 1) | Product Solubility in Water              |
| Ethanol           | 0.79                             | 100                   | 1.4                                  | Complete                                 |
| Product           | Not Determined                   | Not Determined        | Not Determined                       |                                          |

## SECTION IV—FIRE AND EXPLOSION HAZARD DATA

| Mixture Component | Flash Point (Method) | Flammable Limits Lel%   Uel% | Extinguishing Media | Special Fire Fighting Procedures or Unusual Fire and Explosion Hazards                                                                     |
|-------------------|----------------------|------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Ethanol           | 50-55°F (TOC)        | 3.3   19.0                   | Waterspray          | Product will not burn. If product becomes involved in a fire situation extinguishing media for surrounding material should be appropriate. |
| Product           | Not Determined       | Not Determined               |                     |                                                                                                                                            |

## SECTION V—HEALTH HAZARD DATA

| Component |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethanol   | Route(s) of Entry: Inhalation, ingestion, skin<br>Health Hazards:<br>Eye - can cause burning and stinging sensation.<br>Inhalation (5,000 ppm) - cause stupor and sleepiness.<br>Ingestion - initially a stimulant then mental excitement, impaired vision.<br>Skin - can cause defatting and dermatitis.<br>Carcinogenicity: Not listed by NTP, IARC or OSHA<br>Medical Conditions Aggravated by Exposure: Not Determined<br>Emergency First Aid: Eyes - Flush with water for 15 minutes; Skin wash |

## SECTION VI—REACTIVITY DATA

| Product Component | Stable/Unstable | Conditions to Avoid                           | Incompatibility Materials to Avoid | Hazardous Polymerization |
|-------------------|-----------------|-----------------------------------------------|------------------------------------|--------------------------|
| Ethanol           | Stable          | Nitrates, Perchlorates, Elevated temperatures | Aluminum                           | Will not occur.          |
| Product           | Stable          | Not Determined                                | Not Determined                     | Will not occur.          |

## SECTION VII—SPILL OR LEAK PROCEDURES

### Spill:

Absorb spills with paper towels. Dispose of with normal lab trash.

### Waste Disposal:

Waste material can be disposed of with normal lab trash. Follow all Federal, State and local regulations.

## SECTION VIII—SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** Not required under normal product usage.

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

**Protective Gloves:** Not required under normal product usage.

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

**Other Protective Equipment:** Not required under normal product usage.

## SECTION IX—SPECIAL PRECAUTIONS/COMMENTS

Date of Preparation: 1/21/91

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