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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

## SECTION II—HAZARDOUS INGREDIENTS

Hazardous Chemical Name

(Synonym)

Ethanol (Ethyl Alcohol)

%

12

Exposure Limit, Toxicity Data,

CAS Number

TLV: 1000 ppm; PEL: 1000 ppm;

CAS #64-17-5; Tox. Data: Man

(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   | <p>Route(s) of Entry: Inhalation, ingestion, skin</p> <p>Health Hazards:</p> <p>Eye - can cause burning and stinging sensation.</p> <p>Inhalation (5,000 ppm): cause stupor and sleepiness.</p> <p>Ingestion - initially a stimulant then mental excitement, impaired vision.</p> <p>Skin - can cause defatting 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</p> |

## 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

By: Dale M. Drenth

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