

B-12293 LAB  
B-12298

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

Section 1 Manufacturer and Product

Becton Dickinson Microbiology Systems  
250 Schilling Circle  
Cockeysville, Maryland 21030

Telephone : For information (410)771-0100  
For emergency (410)584-2937

Product Name and Catalog Number  
Gram Crystal Violet

Catalog Number 12293, 12297, 12298,  
12405

Section 2 Hazardous Ingredients

Hazardous Chemical: Ethyl Alcohol  
(Synonym): Ethanol  
Percent 12.0%

Exposure Limit TLV: 1000 ppm  
PEL: 1000 ppm  
CAS Number: 64-17-5  
Toxicity Data: TDLo 50 mg/Kg GIT

Section 3 Physical Data

	<u>Ethanol</u>	<u>Product</u>
Boiling Point:	78.3	Not Determined
Vapor Pressure (mmHg):	44	Not Determined
Vapor Density (Air = 1):	1.8	Not Determined
Specific Gravity (H <sub>2</sub> O = 1):	0.79	Not Determined
% Volatile By Volume:	100	Not Determined
Evaporation Rate (BuAc = 1):	1.4	Not Determined
Product Appearance and Odor:	Dark purple solution with aromatic odor.	
Product Solubility In Water:	Complete	

Section 4 Fire and Explosion Data

	<u>Ethanol</u>	<u>Product</u>
Flash Point:	55.6 F	Not Determined
Flammable Limits (LEL/UEL):	3.3/19.0	Not Determined
Extinguishing Media:	Waterspray	Waterspray
Special Procedures/	Product will not burn. If product becomes involved in a fire situation,	
Unusual Hazards:	extinguishing media for surrounding material will be appropriate.	

Section 5 Health Hazard Data

Component: Ethanol

Routes of Entry: Inhalation, Eye, Skin, Ingestion

Health Hazards: (Acute)

Eye- Can cause burning and stinging sensation

Inhalation (5,000 ppm) - Can cause stupor and sleepiness

Ingestion - Initially a stimulant then mental excitement, followed by impaired vision.

Skin - Can cause defatting or dermatitis.

Carcinogenicity - Not listed by OSHA, IARC, or NTP.

Medical Conditions Aggravated by Exposure: (Chronic): Not determined.

## Section 5 Health Hazard Data (Continued)

### Emergency First Aid:

Eyes - Immediately flush eyes , including area under eyelids , with copious amounts of water for at least fifteen minutes, Seek medical attention.

Skin - Wash affected area with soap and water. Seek medical attention if rash appears.

Inhalation - Remove to fresh air and support breathing if necessary. Seek medical attention .

Ingestion - When excessive, induce vomiting and seek immediate medical attention.

## Section 6 Reactivity Data

	<u>Ethanol</u>	<u>Product</u>
Stable/Unstable:	Stable	Stable
Conditions to Avoid:	High Temperatures	High Temperatures
Materials to Avoid:	Aluminum	Not Determined
Hazardous Polymerization:	Will not occur	Will not occur

## Section 7 Spill and Waste Procedures

Spill: Wear gloves. Use paper towels to absorb liquid material. Towels may be disposed of with normal laboratory trash.

Waste Disposal: This product contains a listed hazardous waste and 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 \_\_\_\_\_ 6/28/93 \_\_\_\_\_

By D. B. McQueen \_\_\_\_\_

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