

Date Prepared: 04/09/2015

Reviewed On: 04/09/2015

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- · Product Identifier
- · Product Name: Gram Crystal Violet
- · Catalog Number: 212526
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture In-vitro Diagnostics
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: BD Diagnostic Systems 7 Loveton Circle Sparks, MD 21152 Telephone: (410) 771 - 0100 or (800) 638 – 8663 Email Address: Technical_Services@bd.com
 Information Department: Technical Service
- Emergency telephone number: In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Hazard(s) identification

· Classification of the substance or mixture				
GHS08 Health hazard				
Carc. 2 H351 Suspected of causing cancer.				
GHS07 Acute Tox. 4 H332 Harmful if inhaled.				
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.				
 Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn; Harmful R20-48: Harmful by inhalation. Danger of serious damage to health by prolonged exposure. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data. 				
• Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2) US				



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Product Name: Gram Crystal Violet				
· Hazard pictograms				
GHS07 GHS08				
· Signal word Warning				
 Hazard-determining components of labeling: ethanol methanol Hazard statements H332 Harmful if inhaled. H351 Suspected of causing cancer. H412 Harmful to aquatic life with long lasting effects. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment. P271 Use only outdoors or in a well-ventilated area. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a poison center/doctor if you feel unwell. P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. • NFPA ratings (scale 0-4) 				
Health = 2 Flammability = 0 Reactivity = 0				
· HMIS ratings (scale 0-4)				
HEALTH2FIRE0REACTIVITY0Reactivity0				
 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 				

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · Identification number(s):
- · EC number: 2089536
- · Chemical characterization: Mixture
- · Description: Mixture consisting of the following components.

· Dangerous Components:			
CAS: 67-63-0 EINECS: 200-661-7	isopropanol	Xi R36; F R11 R67	5.0%
CAS: 67-56-1 EINECS: 200-659-6	methanol	T R23/24/25-39/23/24/25; F R11	2.4%
CAS: 64-17-5 EINECS: 200-578-6	ethanol	F R10	2.4%
CAS: 548-62-9 EINECS: 208-953-6	C.I. Basic Violet 3	Xn R22-40; Xi R41; N R50/53 Carc. Cat. 3	0.4%
Additional information Risk phrases refer to section 15.			

4 First-aid measures

- · Description of first aid measures
- · General information

Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.

- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- · After swallowing Immediately call a doctor.
- · Information for doctor Show this product label or this SDS.
- Most important symptoms and effects, both acute and delayed
 Dizziness
- Headache
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.

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- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Wipe up with damp sponge or mop.
- Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- \cdot Requirements to be met by storerooms and receptacles: 15 30 $\,^{\circ}\!\!{\mathcal C}$
- · Information about storage in one common storage facility:
- Store away from oxidizing agents.
- Do not store together with acids.
- · Further information about storage conditions:
- Store in cool, dry conditions in well sealed containers.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see Section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

67-63-0 isopropanol

- PEL Long-term value: 980 mg/m³, 400 ppm
- REL Short-term value: 1225 mg/m³, 500 ppm
 - Long-term value: 980 mg/m³, 400 ppm

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TLV	Short-term value: 984 mg/m ³ , 400 ppm
	Long-term value: 492 mg/m³, 200 ppm
07.5	BEI
	6-1 methanol
	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm
	Skin
TLV	
	Long-term value: 262 mg/m ³ , 200 ppm
	Skin; BEI
64-1	7-5 ethanol
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1880 mg/m³, 1000 ppm
Ingre	edients with biological limit values:
67-6	3-0 isopropanol
	40 mg/L
	Medium: urine
	Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
	6-1 methanol
	15 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methanol (background, nonspecific)
Add	itional information: The lists that were valid during the creation were used as basis.
Expo	osure controls
	sonal Protective Equipment
	eral protective and hygienic measures
	o away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work.
	d contact with the eyes and skin.
	athing equipment:
	ise of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respira
Prot	ection of hands:
1112	
	Chemical resistant gloves (i.e. nitrile, or equivalent).
Nº Y	
Eve	protection: Safety glasses

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Safety Data Sheet acc. to OSHA HCS

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Product Name: Gram Crystal Violet

· Body protection: Protective work clothing (lab coat).

Physical and chemical pr	operties
Information on basic physical	and chemical properties
General Information	
· Appearance:	
Form:	Liquid
Color:	Purple
· Odor:	Characteristic
· pH-value:	Not applicable
· Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
· Flash point:	43 °C (109 °F)
· Auto igniting:	Product is not self igniting.
Danger of explosion:	Product does not present an explosion hazard.
Density:	Not determined
· Solubility in / Miscibility with	
Water:	Slightly soluble
· Solvent content:	
Organic solvents:	9.8 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Incompatible materials: strong acids and oxidizers.
- · Hazardous decomposition products:

Nitrogen oxides (NOx)

Carbon monoxide (CO) and carbon dioxide (CO2) Ammonia (NH4)

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- 548-62-9 C.I. Basic Violet 3
- Oral LD50 96 mg/kg (mou)
- · Primary irritant effect:
- · on the skin: No irritating effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Subacute to chronic toxicity: Target organs: thyroid, kidney, ureter or bladder tumors.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

- · IARC (International Agency for Research on Cancer)
- 67-63-0 isopropanol
- · NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: This material is not expected to be toxic to aquatic life.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered a RCRA hazardous waste.

· Uncleaned packagings:

· Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	
DOT, ADN, IMDG, IATA ADR	Void Void
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Void
Packing group	
DOT, ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
<i>Transport in bulk according to Annex</i> <i>MARPOL73/78 and the IBC Code</i>	ll of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	-

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)
- None of the ingredients is listed.
- · SARA Section 313 (specific toxic chemical listings)
- 67-63-0 isopropanol
- 67-56-1 methanol
- 64-17-5 ethanol
- · TSCA (Toxic Substances Control Act)
- All ingredients are listed.
- · California Proposition 65 Chemicals known to cause cancer
- None of the ingredients is listed.
- California Proposition 65 Chemicals known to cause reproductive toxicity for females:
- None of the ingredients is listed.
- California Proposition 65 Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
- California Proposition 65 Chemicals known to cause developmental toxicity:
 64-17-5 ethanol
- · Carcinogenic categories

· TLV (Threshold Limit Value established by ACGIH)			
67-63-0	isopropanol	A4	
64-17-5	ethanol	A4	

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • **Hazard pictograms**



- · Signal word Warning
- Hazard-determining components of labeling: ethanol methanol
- Hazard statements
 H332 Harmful if inhaled.
 H351 Suspected of causing cancer.



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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

- · Contact: Technical Service Representative
- · Date of preparation / last revision 04/09/2015 / -
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Acute Tox. 4: Acute toxicity, Hazard Category 4 Carc. 2: Carcinogenicity, Hazard Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3