

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

1 Identification of the substance/mixture and of the company/undertaking

- **Product Identifier**
- **Product Name: Gram Safranin**
- **Catalog Number: 212531**
- **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
- **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 Composition/information on ingredients

- **Chemical characterization: Mixture**
- **Description: Mixture consisting of the following components.**

Dangerous Components:

64-17-5	ethanol	19.0%
67-56-1	methanol	1.0%

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xn; Harmful
R40: Limited evidence of a carcinogenic effect.
R10: Flammable.
- **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

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with regulations on hazardous materials.

- **Code letter and hazard designation of product:**



Xn Harmful

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Hazard-determining components of labelling:ethanol
methanol**Risk phrases:**10 Flammable.
40 Limited evidence of a carcinogenic effect.**Safety phrases:**7 Keep container tightly closed.
16 Keep away from sources of ignition - No smoking.
36/37 Wear suitable protective clothing and gloves.
60 This material and its container must be disposed of as hazardous waste.**NFPA ratings (scale 0-4)**Health = 0
Flammability = 2
Reactivity = 0**HMIS ratings (scale 0-4)**HEALTH 0 Health = 0
FIRE 2 Flammability = 2
REACTIVITY 0 Reactivity = 0**Other hazards****4 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 Seek medical treatment 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 MSDS.**5 Firefighting measures****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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· **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:** No special measures required.
- **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.
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 15 - 30 °C
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
- **Storage class** II A
- **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.

· **Components with limit values that require monitoring at the workplace:**

64-17-5 ethanol	
PEL	1900 mg/m ³ , 1000 ppm
REL	1900 mg/m ³ , 1000 ppm
TLV	1880 mg/m ³ , 1000 ppm

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67-56-1 methanol

PEL	260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties

- **General Information**
- **Appearance:**

Form:	Liquid
Color:	Red
Odor:	Characteristic
- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	79°C (174 °F)
- **Flash point:** 38.9°C (102 °F)
- **Ignition temperature:** 425.0°C (797 °F)
- **Auto igniting:** Product is not self igniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Explosion limits:**

Lower:	6.5 Vol %
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Upper:	22 Vol %
Vapor pressure at 25°C (77 °F):	59.0 hPa (44 mm Hg)
Density:	Not determined
Solubility in / Miscibility with Water:	Soluble
Solvent content:	
Organic solvents:	20.0 %
Other information	No further relevant information available.

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- Incompatible materials:** Incompatible materials: strong acids and oxidizers.
- Hazardous decomposition products:**
Carbon monoxide (CO) and carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Hydrogen chloride (HCl)

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

64-17-5 ethanol

Oral	LD50	3450 mg/kg (MOU)
		7060 mg/kg (rat)

67-56-1 methanol

Oral	LD50	5628 mg/kg (rat)
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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: eyes, kidneys, tumor formation, reproductive disorders
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:

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12 Ecological information

- **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.
- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.
RCRA hazardous waste - RCRA # D001 (ignitable).
- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---|--|
| · UN-Number | |
| · DOT | UN3316 |
| · ADR, IMDG, IATA | 3316 |
| · UN proper shipping name | |
| · ADR | 3316 CHEMICAL KITS |
| · IMDG, IATA | CHEMICAL KITS |
| · Transport hazard class(es) | |
| · DOT, IMDG, IATA | |
|  | |
| · Class | 9 Miscellaneous dangerous substances and articles. |

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· Label	9
· ADR	
	
· Class	9 (M11) Miscellaneous dangerous substances and articles
· Label	9
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· EMS Number:	F-A, S-P
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

· SARA Section 355 (extremely hazardous substances)	None of the ingredients is listed.
· SARA Section 313 (specific toxic chemical listings)	
64-17-5	ethanol
67-56-1	methanol
· 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

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· Carcinogenic categories
· NTP (National Toxicology Program)

None of the ingredients listed are above the regulated threshold

· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A4

· Product related hazard information:

The product has been classified and marked in accordance with regulations on hazardous materials.

· Hazard symbols:


Xn Harmful

· Hazard-determining components of labeling:

 ethanol
 methanol

· Risk phrases:

 10 Flammable.
 40 Limited evidence of a carcinogenic effect.

· Safety phrases:

 7 Keep container tightly closed.
 16 Keep away from sources of ignition - No smoking.
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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.

· Department issuing MSDS:

 Environmental, Health & Safety
 Created by Michael J. Spinazzola

· Contact: Technical Service Representative