

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

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

- **Product Identifier**
- **Product Name:** Gram Safranin
- **Catalog Number:** 212532
- **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.
- **Classification system:**  
 The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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- **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
- **Hazard-determining components of labelling:**  
 ethanol  
 methanol
- **Risk phrases:**  
 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.

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· **NFPA ratings (scale 0-4)**· **HMIS ratings (scale 0-4)**

HEALTH	0	Health = *0
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

**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**

CO<sub>2</sub>, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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 with liquid-binding material (sand, diatomite, acid binders, universal binders).

· **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.

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- **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**

## 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<sup>3</sup>, 1000 ppm

 REL 1900 mg/m<sup>3</sup>, 1000 ppm

 TLV 1880 mg/m<sup>3</sup>, 1000 ppm

### 67-56-1 methanol

 PEL 260 mg/m<sup>3</sup>, 200 ppm

 REL Short-term value: 325 mg/m<sup>3</sup>, 250 ppm

 Long-term value: 260 mg/m<sup>3</sup>, 200 ppm

Skin

 TLV Short-term value: 328 mg/m<sup>3</sup>, 250 ppm

 Long-term value: 262 mg/m<sup>3</sup>, 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

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· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	79°C (174 °F)
· <b>Flash point:</b>	37°C (99 °F)
· <b>Ignition temperature:</b>	425.0°C (797 °F)
· <b>Auto igniting:</b>	Product is not self igniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	6.5 Vol %
<b>Upper:</b>	22 Vol %
· <b>Vapor pressure at 25°C (77 °F):</b> 59.0 hPa (44 mm Hg)	
· <b>Density:</b>	Not determined
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Soluble
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	20.0 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Hazardous decomposition products:**  
 Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)  
 Nitrogen oxides (NO<sub>x</sub>)  
 Hydrogen chloride (HCl)

### 11 Toxicological information

- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>64-17-5 ethanol</b>		
Oral	LD50	3450 mg/kg (MOU)
		7060 mg/kg (rat)

- **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:

USA

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### 12 Ecological information

- **Acquatic toxicity:** This material is not expected to be toxic to aquatic life.
- **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

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:**  
 If a dashed line appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.  
 49 CFR §173.150 Exceptions For Class 3 (Flammable) and Combustible Liquids being used .

### 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.

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· 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

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A4

**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