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MSDS
Canadian Centre for Occupational Health and Safety
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## \*\*\* IDENTIFICATION \*\*\*

MSDS RECORD NUMBER

2340316

PRODUCT NAME(S)

: Gram Safranin (Gram Stain Set) PRODUCT IDENTIFICATION : Article number: 212524, 4312524

DATE OF MSDS

: 2000-03-17

:

CURRENCY NOTE

: This MSDS was provided to CCOHS in electronic form on

2000-07-10

\*\*\* MANUFACTURER INFORMATION \*\*\*

MANUFACTURER

BD Biosciences

ADDRESS

7 Loveton Circle Sparks Maryland

U.S.A. 21152

Telephone: 410-771-0100 800-638-8663

EMERGENCY TELEPHONE NO. :

410-771-0100 800-638-8663

800-424-9300 (Chemtrec)

\*\*\* MATERIAL SAFETY DATA \*\*\*

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/28/2000

Reviewed on 03/17/2000

- 1 Identification of substance:
  - o Product details:
  - o Trade name: Gram Safranin

(Gram Stain Set)

- o Article number: 212524, 4312524
- o Manufacturer/Supplier:

BD Biosciences

7 Loveton Circle

Sparks, MD 21152

Tel: (410)771-0100 or (800)638-8663

- o Information department: Technical Services
- o Emergency information:

For a chemical emergency, spill, fire, exposure, or accident call BD Biosciences at (410)771-0100 or (800)638-8663, or Chem Trec

(800) 424-9300

- 2 Composition/Data on components:
  - o Chemical characterization
  - o Description:

Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

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

- 3 Hazards identification
  - o Hazard description: F Highly flammable

Xn Harmful

- o Information pertaining to particular dangers for man and environment
  - Flammable.
  - Harmful by inhalation and if swallowed.
  - R 36/37/38 Irritating to eyes, respiratory system and skin.
  - Can cause cancer Group III (hazardous) R 45
  - May cause harm to the unborn child R 61
  - Possible risks of irreversible effects. R 40
- o Classification system

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

o NFPA ratings (scale 0-4)

Health = 3

Fire = 2Reactivity = 0

- 4 First aid measures
  - o General information Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.
  - o After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical advice. In case of unconsciousness place patient on side position for transportation.
  - o After skin contact Immediately wash with water and soap and rinse thoroughly.
  - o After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
  - o After swallowing Immediately call a doctor. Call a doctor immediately.
  - o Information for doctor Show this label
- 5 Fire fighting measures
  - o Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water or alcohol resistant foam.
  - o Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
- 6 Accidental release measures
  - o Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
  - o Measures for environmental protection: Wipe up with damp sponge or
  - o Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

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o Additional information:
  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
o Handling
o Information for safe handling:
  Ensure good ventilation/exhaustion at the workplace.
o Information about protection against explosions and fires:
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
o Storage
o Requirements to be met by storerooms and receptacles: 15 - 30 C
o Information about storage in one common storage facility:
  Store away from oxidizing agents.
o Further information about storage conditions:
  Store in cool, dry conditions in well sealed receptacles.
o Class according to regulation on flammable liquids: Void
8 Exposure controls and personal protection
o Additional information about design of technical systems:
  No further data; see item 7.
  Components with limit values that require monitoring at the
  workplace:
  64-17-5 ethanol
  ACGIH TLV: 1000 ppm
              A4
  NIOSH REL: 1900 mg/m., 1000 ppm
  OSHA PEL: 1900 mg/m., 1000 ppm
   67-56-1 methanol
  ACGIH TLV: Short-term value: 250 ppm
              Long-term value: 200 ppm
              Skin; BEI
  NIOSH REL: Short-term value: 325 mg/m., 250 ppm
              Long-term value: 260 mg/m., 200 ppm
              Skin
   OSHA PEL: 260 mg/m., 200 ppm
o Additional information:
   The lists that were valid during the creation were used as basis.
 o Personal protective equipment
 o General protective and hygienic measures
   Wash hands before breaks and at the end of work.
 o Breathing equipment:
   In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-
   approved respirator. In case of intensive or longer exposure use
   respiratory protective device that is independent of circulating
 o Protection of hands: Protective gloves.
 o Eye protection: Safety glasses
 o Body protection: Protective work clothing (lab coat).
9 Physical and chemical properties:
 o Form: Liquid
 o Color: Red
 o Odor: Characteristic
                                                             Method
                                        Value/Range Unit
 o Change in condition
 o Melting point/Melting range:
                                      Undetermined
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79 . C o Boiling point/Boiling range: 38.9 . C o Flash point: 425.0 . C o Ignition temperature: Product is not selfigniting. o Auto igniting: o Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. o Explosion limits: 6.5 Vol % o Lower: 22 Vol % o Upper: 59.0 hPa at 25 . C o Vapor pressure: Not determined o Density: o Solubility in / Miscibility with Soluble o Water: o Solvent content: 20.0 % o Organic solvents: 10 Stability and reactivity o Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. o Dangerous reactions No dangerous reactions known o Dangerous products of decomposition: Carbon monoxide (CO) and carbon dioxide (CO2) Nitrogen oxides (NOx) Hydrogen chloride (HCl) \* 11 Toxicological information o Acute toxicity: LD/Lc50 values that are relevant for classification: 67-56-1 methanol Oral: LD50: 5628 mg/kg (rat) 64-17-5 ethanol Oral: LD50: 7060 mg/kg (rat) Inhalative: LC50/4 h: 20000 mg/l (rat) o Primary irritant effect: o on the skin: Irritant to skin and mucous membranes. o on the eye: Irritating effect. o Sensitization: No sensitizing effects known. o Subacute to chronic toxicity: Target organs: eyes, kidneys, tumor formation, reproductive disorders o Additional toxicological information: Irritant Carcinogenic Product is suspected to cause birth defects. The product shows the following dangers according to internally approved calculation methods for preparations: 12 Ecological information: o Ecotoxical effects: o Other information: The ecological effects have not been thoroughly investigated, but currently none have been identified.

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o General notes: Generally not hazardous for water.
 13 Disposal considerations
   o Product:
   o Recommendation
     Must not be disposed of with solid waste.
     Must adhere to state and federal regulations.
     Disposal must be made according to the regulations found in 40 CFR
     261.
     RCRA hazardous waste - RCRA # D001 (ignitable).
   o Uncleaned packagings:
   o Recommended cleansing agent: Water, if necessary with cleansing
     agents.
 14 Transport information
   o DOT regulations:
   o Hazard class:
   o Identification number:
                               UN1993
   o Packing group:
                               III
   o Proper shipping name (technical name):
                               Flammable liquid, n.o.s. (ethanol,
     methanol)
   o Remarks: Limited quantity
   o Land transport ADR/RID (cross-border)
                               3 Flammable liquids
   o ADR/RID class:
                               31c
   o Item:
                               30
   o Danger code (Kemler):
                               1993
   o UN-Number:
                               1993 Flammable liquid, n.o.s. (ethanol,
   o Description of goods:
                               methanol)
   o Maritime transport IMDG:
                               3.3
   o IMDG Class:
                               3345
   o Page:
                               1993
   o UN Number:
   o Packaging group:
                               III
                               3 - 07
   o EMS Number:
   o MFAG:
                               310
   o Marine pollutant:
                               No
                               Flammable liquid, n.o.s. (ethanol,
   o Proper shipping name:
     methanol)
   o Air transport ICAO-TI and IATA-DGR:
                               3
   o ICAO/IATA Class:
                               1993
   o UN/ID Number:
                               TTT
   o Packaging group:
                              Flammable liquid, n.o.s. (ethanol,
   o Proper shipping name:
     methanol)
   o Remarks: Limited quantity
* 15 Regulations
    o Product related hazard informations:
     The product has been classified and marked in accordance with
     regulations on hazardous materials.
    o Hazard symbols:
      F Highly flammable Xn Harmful
    o Risk phrases:
            Flammable.
      10
              Harmful by inhalation and if swallowed.
      20/22
      36/37/38 Irritating to eyes, respiratory system and skin.
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Can cause cancer - Group III (hazardous)
 45
          May cause harm to the unborn child
 61
          Possible risks of irreversible effects.
o Safety phrases:
          Keep container tightly closed.
 7
          Keep away from sources of ignition - No smoking.
 16
 24/25
          Avoid contact with skin and eyes.
          Do not breathe gas/fumes/vapour/spray.
 23
          Wear suitable protective clothing.
 36
o National regulations
o Additional classification according to Decree on Hazardous
 Materials:
 CERCLA: This product contains methanol and has a Reporting Quantity
          (RQ) of 5,000 lbs.
  SARA 311/312: Maybe subject to reporting.
           313: Not subject to reporting.
          This product is exempt under TSCA.
  TSCA:
  CERCLA: This product contains ethanol and has a Reporting Quantity
  (RQ)
          of 5,000 lbs.
  SARA 311/312: Subject to reporting.
           313: Not subject to reporting.
          This product is exempt under TSCA.
o Technical instructions (air):
  Class Share in %
  TTT 20.0
o Water hazard class: Generally not hazardous for water.
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## 16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson 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 cannot guarantee that these are the only hazards that exist.

- o Department issuing MSDS: Safety & Environment Department
- o Contact: Technical Service Representative

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