

07/03/2013

Kit Components

Product code	Description
240764	VDRL Antigen/Buffered Saline
Components:	
240764a	VDRL Buffered Saline
240764b	VDRL Antigen

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 07/03/2013

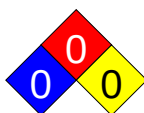
Reviewed On: 06/10/2013

1 Identification

- **Product Identifier**
- **Product Name:** VDRL Buffered Saline
(VDRL Antigen/Buffered Saline)
- **Catalog Number:** 240764
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** *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**
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
- **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** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0-4)**



Health = 0
Flammability = 0
Reactivity = 0

(Contd. on page 2)

US



Safety Data Sheet acc. to OSHA HCS

Page 2/8

Date Prepared: 07/03/2013

Reviewed On: 06/10/2013

Product Name: VDRL Buffered Saline
(VDRL Antigen/Buffered Saline)

(Contd. of page 1)

· **HMIS ratings (scale 0-4)**

HEALTH	0	Health = 0
FIRE	0	Flammability = 0
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixture**
- **Description:** Mixture consisting of the following components.
- **Dangerous Components:** Void
- **Additional information** Risk phrases refer to section 15.

4 First-aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **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 several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** Show this product label or this MSDS.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **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.

(Contd. on page 3)

US

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/10/2013

Product Name: VDRL Buffered Saline
(VDRL Antigen/Buffered Saline)

(Contd. of page 2)

- **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:** No special measures required.
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**
No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 15 - 30 °C
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
- **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal Protective Equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

(Contd. on page 4)

Date Prepared: 07/03/2013

Reviewed On: 06/10/2013

Product Name: VDRL Buffered Saline
(VDRL Antigen/Buffered Saline)

(Contd. of page 3)

· **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

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Clear
Odor:	Odorless

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

· **Flash point:** Not applicable

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined

· **Solubility in / Miscibility with**

Water: Soluble

· **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:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

US

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/10/2013

Product Name: VDRL Buffered Saline
(VDRL Antigen/Buffered Saline)

(Contd. of page 4)

11 Toxicological information· **Information on toxicological effects**· **Acute toxicity:**· **Primary irritant effect:**· **on the skin:** No irritating effect.· **on the eye:** No irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

50-00-0 formaldehyde

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· **NTP (National Toxicology Program)**

50-00-0 formaldehyde

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12 Ecological information· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **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.· **Ecotoxicological effects:**· **Other information:**

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

· **Additional ecological information:**· **General notes:** Generally not hazardous for water.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.

US

(Contd. on page 6)

**Safety Data Sheet**
acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/10/2013

Product Name: VDRL Buffered Saline
(VDRL Antigen/Buffered Saline)

(Contd. of page 5)

13 Disposal considerations· **Waste treatment methods**· **Recommendation***Smaller quantities can 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:**· **Recommendation:** *Disposal must be made according to state and federal regulations.*· **Recommended cleansing agent:** *Water, if necessary with cleansing agents.***14 Transport information**· **UN-Number**· **DOT, ADR, ADN, IMDG, IATA** Void· **UN proper shipping name**· **DOT, ADR, ADN, IMDG, IATA** 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.· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.· **Transport/Additional information:** *If a "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.*· **UN "Model Regulation":** -

US

(Contd. on page 7)



Safety Data Sheet

acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/10/2013

Product Name: VDRL Buffered Saline
(VDRL Antigen/Buffered Saline)

(Contd. of page 6)

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)**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **California Proposition 65 - Chemicals known to cause cancer**

Formaldehyde is toxic, allergenic, and is known to the state of California to cause cancer.

Note: Formaldehyde poses a cancer threat through inhalation of the gas or vapor.

50-00-0 formaldehyde

· **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:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **TLV (Threshold Limit Value established by ACGIH)**

50-00-0 formaldehyde

A2

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **National regulations**

· **Water hazard class:** Generally not hazardous for water.

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

16 Other information

(Contd. on page 8)

US

**Safety Data Sheet**
acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/10/2013

Product Name: VDRL Buffered Saline
(VDRL Antigen/Buffered Saline)

(Contd. of page 7)

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**· 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 Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

US

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

1 Identification

- **Product Identifier**
- **Product Name:** VDRL Antigen
(VDRL Antigen/Buffered Saline)
- **Catalog Number:** 240764
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** *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**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

F; Highly flammable

R11: Highly 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**

- **GHS label elements**

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

- **Hazard pictograms**



GHS02

(Contd. on page 2)

US

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)

(Contd. of page 1)

- **Signal word** *Danger*
- **Hazard statements**
H225 Highly flammable liquid and vapour.
- **Precautionary statements**
 - P210 *Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
 - P241 *Use explosion-proof electrical/ventilating/lighting/equipment.*
 - P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
 - P240 *Ground/bond container and receiving equipment.*
 - P233 *Keep container tightly closed.*
 - P242 *Use only non-sparking tools.*
 - P243 *Take precautionary measures against static discharge.*
 - P303+P361+P353 *IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*
 - P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.*
 - P403+P235 *Store in a well-ventilated place. Keep cool.*
 - P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **NFPA ratings (scale 0-4)**



Health = 1
Flammability = 3
Reactivity = 0

- **HMIS ratings (scale 0-4)**
- | | |
|------------|---|
| HEALTH | 1 |
| FIRE | 3 |
| REACTIVITY | 0 |
- Health = 1
Flammability = 3
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **Identification number(s):**
- **EC number:** 2005786
- **Index number:** 603-002-00-5
- **Chemical characterization: Mixture**
- **Description:** Mixture consisting of the following components.

Dangerous Components:

CAS: 64-17-5	ethanol	F R10	98.89%
EINECS: 200-578-6			

(Contd. on page 3)



Safety Data Sheet acc. to OSHA HCS

Page 3/11

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

**Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)**

(Contd. of page 2)

· **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 MSDS.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **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.
- **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:** Ensure adequate ventilation.
- **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.

US
(Contd. on page 4)

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)

(Contd. of page 3)

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**
- **Requirements to be met by storerooms and receptacles:** 15 - 30 °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:** Keep receptacle tightly sealed.
- **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:**

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

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal Protective Equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- **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

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)

(Contd. of page 4)

· **Body protection:** Protective work clothing (lab coat).**9 Physical and chemical properties**· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Liquid
Color:	Colorless
Odor:	Alcohol-like

· **Change in condition****Melting point/Melting range:** -114.5 °C (-174 °F)**Boiling point/Boiling range:** 78 °C (172 °F)· **Flash point:** 15.0 °C (59 °F)· **Ignition temperature:** 425 °C (797 °F)· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.· **Explosion limits:****Lower:** 3.3 Vol %**Upper:** 19 Vol %· **Vapor pressure at 20 °C (68 °F):** 40 hPa (30 mm Hg)· **Density at 20 °C (68 °F):** 0.79 g/cm³· **Solubility in / Miscibility with****Water:** Soluble· **Solvent content:****Organic solvents:** 99.9 %· **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:** No further relevant information available.· **Hazardous decomposition products:**Carbon monoxide (CO) and carbon dioxide (CO₂)

(Contd. on page 6)



Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)

Nitrogen oxides (NOx)

(Contd. of page 5)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	7060 mg/kg (rat)
------	------	------------------

- **64-17-5 ethanol**

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

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Subacute to chronic toxicity:**

Target organs: liver, gastrointestinal tumors, blood, lymphomas.

Target organs: musculoskeletal system, central nervous system.

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:

Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **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.

- **Ecotoxicological effects:**

- **Other information:**

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

(Contd. on page 7)

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)

(Contd. of page 6)

- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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:**
- **Recommendation:** Disposal must be made according to state and federal regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---|---|
| · UN-Number | |
| · DOT | UN1993 |
| · ADR, IMDG, IATA | 1993 |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | FLAMMABLE LIQUID, N.O.S. (ethanol) |
| · ADR | 1993 FLAMMABLE LIQUID, N.O.S. (ethanol) |
| · Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |

(Contd. on page 8)

US

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)

(Contd. of page 7)

 · **ADR**

 · **Class** 3 (F1) Flammable liquids
 · **Label** 3

 · **IMDG, IATA**

 · **Class** 3 Flammable liquids.
 · **Label** 3

 · **Packing group**

 · **DOT, ADR, IMDG, IATA** II

 · **Environmental hazards:**

 · **Marine pollutant:** No

 · **Special precautions for user** Warning: Flammable liquids

 · **Danger code (Kemler):** 33

 · **EMS Number:** F-E, S-E

 · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

 · **Transport/Additional information:**

 · **DOT**

 · **Remarks:** This product can be transported using the "small quantity" exception. This package conforms to 49 CFR 173.4 for domestic highway or rail transport only. The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.

 · **IMDG**

 · **Remarks:** Limited quantity

 · **IATA**

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)

(Contd. of page 8)

- | | |
|---------------------------------|--|
| · Remarks: | This product can be transported using the exception: Dangerous Goods in Excepted Quantities. The Hazard class, Identification number, and Packing group listed above is for informational purposes only. |
| · UN "Model Regulation": | UN1993, FLAMMABLE LIQUID, N.O.S., special provision 640D (ETHANOL), 3, II |

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)**

64-17-5 ethanol

- **TSCA (Toxic Substances Control Act)**

64-17-5 ethanol

- **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)**

64-17-5 ethanol

A4

- **GHS label elements**

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

- **Hazard pictograms**



GHS02

(Contd. on page 10)



Safety Data Sheet acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

**Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)**

(Contd. of page 9)

- **Signal word** *Danger*
- **Hazard statements**
H225 Highly flammable liquid and vapour.
- **Precautionary statements**
 - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
 - P241 Use explosion-proof electrical/ventilating/lighting/equipment.*
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.*
 - P240 Ground/bond container and receiving equipment.*
 - P233 Keep container tightly closed.*
 - P242 Use only non-sparking tools.*
 - P243 Take precautionary measures against static discharge.*
 - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*
 - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.*
 - P403+P235 Store in a well-ventilated place. Keep cool.*
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **National regulations**
- **Additional classification according to Decree on Hazardous Materials:**
 - RCRA: This product contains ethanol and the Reportable Quantity (RQ) is 100 lbs.*
 - SARA 311/312: Maybe subject to reporting.*
 - 313: Not subject to reporting.*
 - TSCA: This product is exempt under TSCA.*
- **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.

- **Department issuing MSDS:**
Environmental, Health & Safety
Created by Michael J. Spinazzola
- **Contact:** *Technical Service Representative*
- **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 Organization*
 - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (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*

(Contd. on page 11)



Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 07/03/2013

Reviewed On: 06/12/2013

Product Name: VDRL Antigen
(VDRL Antigen/Buffered Saline)

(Contd. of page 10)

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
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

US