

Material Safety Data Sheet acc. to ISO/DIS 11014

Reviewed On: 01/08/2007 Date Prepared: 01/27/2007

1 Identification of substance:

· Product name: VDRL Antigen · Catalog number: 211440

· Manufacturer/Supplier:

BD Diagnostic Systems

7 Loveton Circle

Sparks, *MD* 21152

Telephone: (410) 771-0100 or (800) 638-8663 · Information department: Technical services

· Emergency information:

In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems at (410)771-0100 or (800) 638-8663, or ChemTrec at (800) 424-9300.

2 Composition/Data on components:

- · Chemical characterization
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

64-17-5 ethanol

99.0%

3 Hazards identification

· Hazard description:





Xn Harmful

F Highly flammable

· Information pertaining to particular dangers for man and environment

R 11 Highly flammable.

R 40 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.

· HMIS ratings (scale 0-4)



Health = *1

Fire = 3

REACTIVITY 0 Reactivity = 0

4 First aid measures

- · General information No special measures required.
- · 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 Call a doctor immediately.
- · Information for doctor Show this product label or this MSDS.



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(Contd. of page 1)

5 Fire fighting measures

· Suitable extinguishing agents

CO2, 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

- · Person-related safety precautions: Not required.
- · Measures for environmental protection: Wipe up with damp sponge or mop.
- · Measures for cleaning/collecting:

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

7 Handling and storage

- · Handling
- · Information 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: < 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.

8 Exposure controls and personal protection

- · 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

TLV 1900 mg/m3, 1000 ml/m3

- · 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.

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



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(Contd. of page 2)

9 Physical and chemical properties:			
· General Information			
Form:	Liquid		
Color:	Clear		
Odor:	Alcohol-like		
· Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: Not determined			
· Flash point:	15°C		
· Auto igniting:	Product is not self igniting.		
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.		
· Density:	Not determined		
· Solubility in / Miscibility with Water:	Soluble		

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known
- Dangerous products of decomposition: Carbon monoxide (CO)

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:	
Oral LD50 3450 mg/kg (MOU)	

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.
- · Additional toxicological information:

Harmful

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

12 Ecological information:

- · Ecotoxical effects:
- · Other information:

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

(Contd. on page 4)



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(Contd. of page 3)

· General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- · Product:
- · Recommendation

Must not be disposed of with solid waste. Must adhere to official regulations.

- · 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

· DOT regulations:



· Hazard class:

· Identification number: UN1993 · Packing group:

· Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethanol)

· Label

This product can be transported using the "small quantity" exception. This package · Remarks:

conforms to 49 CFR 173.4. The Hazard Class, Identification number, and Packing group

listed above is for informational purposes only.

· Land transport ADR/RID (cross-border)



· ADR/RID class: 3 (F1) Flammable liquids

· Danger code (Kemler): 33 · UN-Number: 1993 · Packaging group: II

· Description of goods: 1993 Flammable liquid, n.o.s. (ethanol)

· Maritime transport IMDG:



· IMDG Class: 3 · UN Number: 1993 · Label 3 · Packaging group: IIF-E,S-E· EMS Number: · Marine pollutant: No

(Contd. on page 5)



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(Contd. of page 4)

· Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethanol)

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 3 · UN/ID Number: 1993 · Label 3 · Packaging group: II

· Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethanol)

15 Regulations

· 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

- · Carcinogenicity categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A4

· Product related hazard information:

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.

· Hazard symbols:

Xn Harmful

F Highly flammable

· Hazard-determining components of labeling:

ethanol



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(Contd. of page 5)

· Risk phrases:

11 Highly flammable.

40 Limited evidence of a carcinogenic effect.

· Safety phrases:

7/9 Keep container tightly closed and in a well-ventilated place.

- 16 Keep away from sources of ignition No smoking.
- 33 Take precautionary measures against static discharges.
- 36/37 Wear suitable protective clothing and gloves.
- 60 This material and its container must be disposed of as hazardous waste.

· National regulations

· Technical instructions (air):

Class	Share in %
III	99.0

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: Safety and Environment Department
- · Contact: Technical Service Representative

CDN