

Dec. 10,2007

MATERIAL SAFETY DATA SHEET

1. PRUDUCT AND COMPANY INFORMATION

Product Name: Yersinia enterocolitica Antiserum

Company Name: DENKA SEIKEN Co. Ltd

Address:1-2-2 Minami-Honchou Gosen-shi Niigata-ken, Japan

Division: Quality Assurance Division

Telephone: +81-0250-43-4136

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Product Code :

Product Code	Product	Product Code	Product	Product Code	Product
293763	Poyvalent Group O1,2	293770	Group O3	293794	Group O8
		293787	Group O5	293800	Group O9

General use: In vitro diagnostic

MSDS No.:293763-03

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Registry No	Quantity/2mL
• Each Antiserum		
Rabbit serum	---	Adequate
Disodium hydrogen phosphate 12-water	10039-32-4	5.8~7.5mg
Potassium dihydrogen phosphate	7778-77-0	0.5~0.7mg
Sodium chloride	7647-14-5	13.4~17.2mg
Sodium azide	26628-22-8	1.6mg
Glycerin	56-81-5	0.3~0.4mg

Sodium azide: EC No.247-852-1

Index No. 011-004-00-7;<0.1%concentration does not require hazard labeling

R22: Harmful if swallowed

R32:Contact with acid liberates very toxic gas

S35: This material and its container must be disposed of in a safe way.

S36: Wear suitable protective clothing

S46: If swallowed, seek medical advice and show this container or label

3. HAZARD IDENTIFICATION

Contains no hazardous substances in reportable quantities

4..FIRST AID MEASURES

Skin Contact : Wash skin through with soap and water. In the event of redness or itching seek medical advice.

Eyes : Rinse eyes immediately with water for 10 to 15 minutes with eyelids open.
Seek medical advice if irritation persists.

Ingestion: Wash mouth out with plenty of water and seek medical advice.

5. FIRE FIGHTING MEASURES

These products are not flammable.

Thermal decomposition of components is unlikely to result in gases which are damaging to health in any quantity.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Normal laboratory clothing should be worn and standard safety procedures should be followed according to local rules.

Accidental release spillage measures: After spillage mop up with absorbent material e.g. cotton, wool or paper towel.

7. HANDLING AND STORAGE

Technical measures:

Avoid contact with skin, eyes or clothing using protectors such as goggles, gloves and so on.

Warning: Minimize dust generation and accumulation

Hazard: All reagents contain 0.08w/v% sodium azide as a preservative. As sodium azide may react with lead or copper piping to form explosive metal azide, these products should be disposed of by flushing with copious amounts of water.

Storage: Store at 2~10°C

Avoid freezing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Mask

Hand Protection : Glove

Eye Protection : Chemical goggles and face shield

Skin Protection : Wear impervious clothing such as apron or whole body suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Color : Transparent

Odor : Odorless

Flammability: Not applicable

Explosive properties : Not applicable

Relative density : Not applicable

Solubility: Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable for 24 months at 2~10°C

Reactivity: Not applicable

Decomposition : Not applicable

11. TOXICOLOGICAL INFORMATION

There is no evidence of any adverse toxicological problems.

12. ECOLOGICAL INFORMATION

Not implemented

13. DISPOSAL CONSIDERATION

Comply with all federal, state and local regulations

[Yersinia enterocolitica Antisera]

[DENKA SEIKEN Co. ,Ltd][MSDS No. 293763-03][Dec.10,2007] [3/3]

14. TRANSPORT INFORMATION

Not applicable

15. REGULATORY INFORMATION

None of the components in these products requires special labeling in accordance with UK or EC directives.

16. OTHER INFORMATION

These products are intended for in vitro diagnostic use only. Not for use in human. The information herein is believed to be correct as of the data given, and excludes any guarantee related with final use given to the products, the recipient being the last responsible for observing the laws applicable in each case.