

Drafted: March 30, 2009

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY INFORMATION

Product Name: s LDL-EX "SEIKEN"

Company Name: DENKA SEIKEN Co. Ltd

Address: 3-4-1 Nihonbashi-Kayabacho, Chuo-ku, Tokyo, Japan

Division: Quality Assurance Division

Telephone: +81-0250-43-4136

Facsimile :+81-0250-43-3789

Product Codes: 562616

MSDS No.: 562616-01

2. HAZARD IDENTIFICATION

Contains no hazardous substances in reportable quantities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single compound / Mixture: Mixture

General use: *In vitro* diagnostic

Ingredients and concentrations:

Ingredient	CAS Registry No	Concentration
s LDL-EX-A [Reagent-1]		
Cholesterol esterase [microorganism]	NA	1600 IU/L
Cholesterol oxidase [microorganism]	NA	600 IU/L
Ascorbate oxidase [microorganism]	NA	3000 U/L
Sphingomyelinase [microorganism]	NA	2700 U/L
Catalase [microorganism]	NA	1200 KU/L
Bovine Serum Albumin [bovine]	NA	1.0 wt/vol%
N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3-methylaniline	82692-93-1	2.0 mmol/L
s LDL-EX-B [Reagent-2]		
Peroxidase [Horseradish]	NA	5000 U/L
4-Aminoantipyrine	83-07-8	4.0 mmol/L
Sodium azide*	26628-22-8	0.05 w/v%
Alcohols, C 11-15-Secondary, Ethoxylated	68131-40-8	1.0 w/v%

* Designated substance by Labor Safety and Health Law but is not in the scope of the regulation due to its concentration (the law is applied to sodium azide over 0.1 w/v%).

* Designated as a poisonous substance by Poisonous and Deleterious Substances Control Law but is not in the scope of the regulation due to its concentration (the law is applied to sodium azide over 0.1 w/v%).

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 at least for 15 minutes with eyelids open. Seek medical advice if irritation persists.
Ingestion	Rinse mouth 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. Avoid contact with skin, eyes or clothing.
Accidental release spillage measures	After absorbing liquid with absorbent material e.g. cotton, wool or paper towel, mop the area with ethanol.

7. **HANDLING AND STORAGE**

Technical measures:

Normal laboratory clothing should be worn and standard safety procedures should be followed according to local rules. Avoid contact with skin, eyes or clothing.

Warning:

Minimize dust generation and accumulation.

Hazard:

As sodium azide may react with lead or copper piping to form explosive metal azide, the products should be disposed of by flushing with copious amounts of water.

Storage:

Store at + 2 to +8 °C protect from direct sunlight. Avoid freezing.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: Masks

Hand Protection : Laboratory Gloves

Eye Protection : Laboratory goggles and/or face shield

Skin Protection : Normal laboratory clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

	Reagent-1	Reagent-2
Physical state	Liquid	Liquid
Color	Transparent	Pale-yellowish, transparent
Odor	Odorless	Odorless
pH	7.0	7.0

Flammability: Not applicable

Explosive properties : Not applicable

Relative density : Not applicable

Solubility: Not applicable

10. STABILITY AND REACTIVITY

Stability: The products are stable up to the assigned expiration date when stored at +2 to +8 °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

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.