

Japan Institute for the Control of Aging (JalCA)

MATERIAL SAFETY DATA SHEET

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Product and Company Information

Product Name: Hexanoyl-Lys adduct (HEL) ELISA
 Product Number: KHL-700E
 Manufacture: Japan Institute for the Control of Aging (JalCA),
 Nikken SEIL Corporation
 Address: 710-1 Haruoka, Fukuroi-shi, Shizuoka, 437-0122 Japan
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Composition / Information on Ingredient

Product Name	CAS Number
HEL ELISA kit	None
Kit components:	
1) HEL Microtiter Plate:	Microtiter plates precoated with HEL.
2) Primary antibody:	Monoclonal antibody specific for HEL.
3) Secondary antibody:	HRP-conjugated anti mouse antibody.
4) Secondary antibody buffer:	Phosphate buffered saline.
5) Chromogen:	3,3',5,5'-tetramethylbenzidine (TMBZ).
6) Chromogen Buffer:	Hydrogen peroxide (<0.05%) dissolved in citrate-phosphate buffered saline.
7) Washing Buffer (5X):	Phosphate buffered saline.
8) Stop Solution:	1M phosphoric acid.
9) Standard HEL solution:	2.6,7.7,22.7,69.7, 207, 624 nmol/L of HEL
10) Plate Seal.	

The hazards identified with these products are those associated with following substances. Please refer to individual material safety data sheets.

- A) Hydrogen peroxide (CAS# 7722-84-1, <0.05%) in "Diluting solution".
- B) N,N-Dimethylformamide (CAS#68-12-2, <0.3 mL) in "Chromogen solution".

Hazards Identification

HMIS Rating

Health:

Flammability:

Reactivity:

NFPA Rating

Health:

Flammability:

Reactivity:

First Aid Measures

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious.

Call a physician immediately.

Inhalation Exposure:

If inhaled, remove to fresh air. If not breathing, give artificial respiration.

Call a physician immediately.

Dermal Exposure:

In case of skin exposure, wash out with water for at least 15 minutes.

Remove contaminated clothing. Call a physician immediately.

Eye Exposure:

In case of eye exposure, wash out with water for at least 15 minutes.

Call a physician immediately.

Fire Fighting Measures

Explosion Hazards: N/A

Flash Point: N/A

Autoignition Temperature: N/A

Flammability: N/A

Extinguishing Media: Water spray, carbon dioxide or dry chemical powder.

Firefighting: Wear self –contained breathing apparatus and protective clothing to prevent with skin and eyes.

Accidental Release Measures

Procedure of Personal Precautions:

Wear respirator, chemical safety goggles, rubber boots and rubber gloves.

Clean-Up Procedure:

Spilled material should be wiped up.

Handling and Storage

Store at 2-8 degree C.

Exposure Controls

Engineering Controls:

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

Respiratory: respirator.

Hand: rubber gloves.

Eye: goggles:

General Hygiene Measures:

Wash thoroughly after handling. Wash contaminated clothing before re-use.

Stability and Reactivity

Stability: Stable.

Materials to Avoid: N/A.

Hazardous Decomposition Products: Nature of decomposition products is not known.

Toxicological Information

Route of Exposure:

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May cause irritation at mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Ecological Information

N/A

Disposal Information

Contact a professional waste disposal service to dispose this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all environmental regulations.

Transport Information

This substance is considered to be Non-Hazardous for transport.

This substance is considered to be Non-Hazardous for air transport.

Regulatory Information

United States Classification and Label Text:

United States Regulatory Information:

SARA Listed: No.

Other Information

This substance is For Research Use Only.

Not for drug, diagnostic, or other uses.