

## SAFETY DATA SHEET

## In accordance with ISO 11014: 2009

## Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Product identifier**

Product code 1-DP1-002

Product name ITEA Der p 1 ELISA Self-build Kit (Biotin-labeled)

A. Capture monoclonal antibody for coating

B. Standard (lyophilized)

C. Biotin-labeled monoclonal antibody

## Manufacture/supplier

Manufacture/supplier Institute of Tokyo Environmental Allergy, ITEA Inc.

Department in Charge Quality Assurance Sec.

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## Recommended use and restriction on use

Recommended use Research reagent

Restrictions on use This product should not be used for applications other than those recommended.

## **Section 2: HAZARDS IDENTIFICATION**

#### Important hazards

## **GHS** classification

Physical Hazards Not classified

#### **Health Hazards**

A. Capture monoclonal antibody for coating
B. Standard (lyophilized)
C. Biotin-labeled monoclonal antibody
Not classified
Not classified

Environmental Hazards Not classified

## **Label Elements**

- A. Capture monoclonal antibody for coating
- B. Standard (lyophilized)
- C. Biotin-labeled monoclonal antibody

Pictogram Not classified
Signal word Not classified
Hazard Statements Not classified
Precautionary Statements Not classified

Other hazards No information

# Important symptoms and an outline of an anticipated emergency

A. Capture monoclonal antibody for coating
B. Standard (lyophilized)
C. Biotin-labeled monoclonal antibody
No information
No information

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

## Substance/Mixture

Mixture



#### Compositions

A. Capture monoclonal antibody for coating

Chemical name/ Generic name	CAS number	Concentration (wt %)
Glycerol	56-81-5	40 <u>&lt;</u> , < 60
Hydrogen chloride	7647-01-0	<u>≤</u> 0.09

C. Biotin-labeled monoclonal antibody

Chemical name/ Generic name	CAS number	Concentration (wt %)
Glycerol	56-81-5	40 ≤, < 60

The following components do not contain hazardous ingredients.

B. Standard (lyophilized)

## **Section 4: FIRST-AID MEASURES**

First aid procedures

IF INHALED Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

If you feel unwell, get medical advice/attention immediately and at rest.

IF ON SKIN Rinse with plenty of water.

If abnormality, immediately get medical advice/attention.

IF IN EYES Immediately rinse cautiously with water for 15 - 20 minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately get medical advice/attention.

IF SWALLOWED Rinse mouth. Immediately get medical advice/attention.

## Anticipated acute effects, anticipated delayed effects and most important symptoms/effects

A. Capture monoclonal antibody for coating
C. Biotin-labeled monoclonal antibody
No information

B. Standard (lyophilized)

May cause skin, eyes and respiratory system irritation or cause allergic

reaction if contact with or inhaled this product.

## Protection of first-aiders

Wear appropriate eyes and skin protective equipment.

# Note to an attending physician

No information

# **Section 5: FIRE-FIGHTING MEASURES**

## **Extinguishing media**

#### Suitable extinguishing media

In case of fire, use water spray, dry extinguishant, fire foam or carbon dioxide.

# Unsuitable extinguishing media

No restrictions on extinguishing media for this product.

# Specific hazards arising from the chemical

A. Capture monoclonal antibody for coating
B. Standard (lyophilized)
C. Biotin-labeled monoclonal antibody
No information
No information

Take action from windward.

Keep out except responsible personnel.

Move container to a safe area if it can be done without risk.



## Protective equipment and precautions for firefighters

Fire fighters should wear appropriate protective equipment and fireproof clothing.

## Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear suitable protective equipment described in section "Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION".

#### **Environmental precautions**

Prevent to flowing into drains, sewers, basements or closed areas.

## Methods and materials for containment and cleaning up

- A. Capture monoclonal antibody for coating
- C. Biotin-labeled monoclonal antibody

Absorb into liquid absorbent, etc., and collect in an empty container.

B. Standard (lyophilized)

Sweep up scattered materials or vacuum them using a vacuum cleaner so as not to cause dust then collect them into an empty container.

#### Secondary disaster prevention measures

No information

## **Section 7: HANDLING AND STORAGE**

#### Handling

A. Capture monoclonal antibody for coating

B. Standard (lyophilized)

C. Biotin-labeled monoclonal antibody

Technical measures Install appropriate equipment and wear suitable protective

apparatus described in section "Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION".

Precautions such as local Handle the product in a well-ventilated area.

/total ventilation In case of mist/vapours generation, use local ventilation.

Precautions for safe handling Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid the generation of dust regarding B. Standard (lyophilized).

Prevention of contact Avoid direct sunlight, high temperature and high humidity.

#### Storage

Technical measures Store in a biomedical freezer at -20°C.

Incompatible materials and mixtures

A. Capture monoclonal antibody for coating
B. Standard (lyophilized)
C. Biotin-labeled monoclonal antibody
No information
No information
No information
Store at -20°C.

It may freeze at temperatures below -25°C as the reagent A and C

contain glycerol.

Packing material

A. Capture monoclonal antibody for coating
B. Standard (lyophilized)
C. Biotin-labeled monoclonal antibody
Polypropylene
Polypropylene

# Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

# Permissible concentration

# Occupational Exposure Limits

A. Capture monoclonal antibody for coating



Hydrogen chloride

ACGIH TLV 2 ppm (ceiling)

B. Standard (lyophilized)

ACGIH TLV-TWA (2018) 3 mg/m<sup>3</sup> (respirable particles)

10 mg/m<sup>3</sup> (inhalable particles)

ACGIH TLV-STEL (2018) Not applicable \* This item is not an acceptable concentration for sensitization.

#### C. Biotin-labeled monoclonal antibody

Does not contain ingredients for which occupational exposure limits have been established.

#### **Engineering controls**

In a work place where dusts generate, ensure to use sealed instrument or local ventilation.

Under high temperature or in case of mist generation, use ventilation.

## Personal protective equipment

Respiratory protection Wear an appropriate protective mask.

Hand protection Wear protective gloves.

Eye protection Wear safety glasses .

Skin and body protection Wear a lab coat.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance (physical state, form and colour)

C. Biotin-labeled monoclonal antibody

A. Capture monoclonal antibody for coating Clear and colourless liquid

B. Standard (lyophilized) White powder

C. Biotin-labeled monoclonal antibody Clear and colourless liquid

Odour Odour threshold No information
No information

No information

pН

A. Capture monoclonal antibody for coating No information

B. Standard (lyophilized) 7.2 - 7.6 (after dissolving with distilled water)

No information Melting point/ freezing point Boiling point, initial boiling point and boiling range No information **Flashpoint** No information No information **Evaporation rate** Flammability No information Upper/lower explosive limits No information No information Vapour pressure Vapour density No information Specific gravity No information

**Solubility** Every component is miscible with water.

B. Standard (lyophilized) may cause turbidity.

n -octanol/water partition coefficientNo informationAuto-ignition temperatureNo informationDecomposition temperatureNo informationViscosityNo informationOther informationNo information

# **Section 10: STABILITY AND REACTIVITY**

Chemical stability Stable under normal handling condition.

Hazardous reactions

No hazardous reaction expected under normal handling.

Conditions to avoid

Direct sunlight, high temperature and high humidity

**Incompatible materials** 

A. Capture monoclonal antibody for coating No information



B. Standard (lyophilized)
C. Biotin-labeled monoclonal antibody
No information

Hazardous decomposition products

A. Capture monoclonal antibody for coating
B. Standard (lyophilized)
C. Biotin-labeled monoclonal antibody
No information
No information

## Section 11: TOXICOLOGICAL INFORMATION

**Toxicological information for product**No information

## Toxicological information for ingredients

A. Capture monoclonal antibody for coating

Hydrogen chloride

Acute toxicity (oral): Rat  $LD_{50} = 238 - 277 \text{ mg/kg}$ 

Acute toxicity (dermal): Rabbit LD<sub>50</sub> >5010 mg/kg (not classified)

Acute toxicity (gases): Rat  $LC_{50} = 1411 \text{ ppm}$ 

Carcinogenicity: IARC Group3 Not classifiable as to its carcinogenicity to humans

## **Section 12: ECOLOGICAL INFORMATION**

#### **Ecological information for product**

Ecotoxicity No information
Persistence and degradability No information
Bioaccumulative potential No information
Mobility in soil No information
Hazardous to the ozone layer No information

## **Ecological information for ingredients**

A. Capture monoclonal antibody for coating

Hydrogen chloride

Ecotoxicity (acute) Crustacean ( $Daphnia\ magna$ ) 48 h EC<sub>50</sub> = 0.492 mg/L

Ecotoxicity (chronic)

Persistence and degradability

No information

Bioaccumulative potential

Mobility in soil

Hazardous to the ozone layer

No information

No information

# Section 13: DISPOSAL CONSIDERATIONS

## Remaining product

- A. Capture monoclonal antibody for coating
- B. Standard (lyophilized)
- C. Biotin-labeled monoclonal antibody

Dispose of waste in accordance with applicable local, regional and international regulations and standards.

## Contaminated containers and packaging

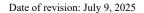
When dispose of empty containers, contents should be removed completely and be recycled or dispose of in compliance with related laws and local regulations.

# **Section 14: TRANSPORT INFORMATION**

# International regulation

UN number Not applicable
UN proper shipping name Not applicable
Transport hazard class(es) Not applicable
Subsidiary risk Not applicable
Packing group Not applicable







Marine pollutant Not applicable IBC Code Not applicable

When transporting, confirm no damage to containers. Avoid handling violently or leaking wet. Load to prevent fall or falling down containers and take preventive measures of collapse.

## **Section 15: REGULATORY INFORMATION**

#### **US Federal regulation**

TSCA inventory: Registered Sodium chloride

Potassium dihydrogenphosphate

Potassium chloride

3(2H)-Isothiazolone, 2-methyl-

Sulfuric acid Hydrochloric acid 1,2,3-Propanetriol

#### **EU** regulation

The product and its ingredients are not regulated by specific provisions related to protection of human health or the environment at EU level, e.g. not considered as SVHCs or POPs.

(EC) 1272/2008 (Annex VI, Table 3): Listed (Hydrogen chloride)

#### **Section 16: OTHER INFORMATION**

#### Reference

Information of Institute of Tokyo Environmental Allergy, ITEA Inc.

NITE GHS classification results (http://www.safe.nite.go.jp/ghs/list.html). (2018)

ACGIH, American Conference of Governmental Industrial Hygienists (2018) TLVs and BEIs.

#### [Disclaimer]

This SDS has been prepared on the basis of laws, regulations and information available at this time. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.