

# SAFETY DATA SHEET

# In accordance with ISO 11014: 2009

#### Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### **Product identifier**

Product code 1-DFH-001

Product name ITEA Der f 1 ELISA Kit, High Sensitive

A. Capture antibody coated microplate

B. Standard (lyophilized)C. Biotin-labeled antibodyD. Enzyme-labeled streptavidin

E. TMB SolutionF. Stop solutionG. Dilute solution

H. Washing solution (20x concentrated)

#### 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 antibody coated microplate
B. Standard (lyophilized)
D. Enzyme-labeled streptavidin
E. TMB Solution
Not classified
G. Dilute solution
Not classified
H. Washing solution (20x concentrated)
Not classified

# C. Biotin-labeled antibody

Skin sensitization Category 1A
Carcinogenicity Category 1A
Reproductive toxicity Category 1A
Specific target organ toxicity Category 2 (the liver)

(repeated exposure):

#### F. Stop solution

Skin irritation/corrosion: Category 1
Eye damage/irritation: Category 1

Specific target organ toxicity Category 2 (respiratory system)

(single exposure):

Specific target organ toxicity Category 2 (respiratory system)

(repeated exposure):



#### **Environmental Hazards**

#### Not classified

#### **Label Elements**

A. Capture antibody coated microplate

B. Standard (lyophilized)

D. Enzyme-labeled streptavidin

E. TMB Solution

G. Dilute solution

H. Washing solution (20x concentrated)

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

C. Biotin-labeled antibody

Pictogram





Signal word Dange

Hazard Statements Danger of causing allergic skin reactions.

Danger of cancer.

May damage fertility or the unborn child.

May cause damage to specific target organ through prolonged or repeated

exposure (the liver).

Precautionary Statements

[Prevention] Obtain an instruction manual before use.

Do not handle it until all safety precautions have been read and understood.

 $Do \ not \ breathe \ dust/fume/gas/mist/vapours/spray.$ 

Wear protective gloves.

Contaminated work clothes must not leave the work area.

[Emergency response] Special treatment is required.

Get medical advice/attention if you feel unwell.

IF exposed or concerned: Call a POISON CENTER/doctor. IF ON SKIN: Rinse skin with large amount of water.

IF SKIN IRRITATION or RASH occur: Seek medical advice/attetion.

Wash contaminated clothing before reuse.

[Storage] No information

[Disposal] Dispose of contents/container in accordance with related laws and

local/regional regulations.

F. Stop solution

Pictogram





Signal word Dange

Hazard Statements Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause damage to respiratory system.

May cause damage to respiratory system through prolonged or repeated

exposure.

Precautionary Statements

[Prevention] Do not breathe dust/fume/gas/mist/vapours/spray.

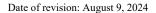
Wash hands thoroughly after handling.

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

Wear protective gloves/protective clothing/eye protection/face protection.

[Emergency response] IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing.





Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for

breathing

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Call a POISON CENTER/doctor.

Immediately call a POISON CENTER/doctor. Get medical advice/attention if you feel unwell.

Wash contaminated clothing before reuse.

[Storage] Store locked up.

[Disposal] Dispose of contents/container in accordance with related laws and

local/regional regulations.

Other hazards No information

#### Important symptoms and an outline of an anticipated emergency

A. Capture antibody coated microplate

B. Standard (lyophilized)

C. Biotin-labeled antibody

D. Enzyme-labeled streptavidin

E. TMB Solution

G. Dilute solution

H. Washing solution (20x concentrated)

No information

No information

No information

F. Stop solution Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause damage to respiratory system.

May cause damage to respiratory system through prolonged or

repeated exposure.

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/Mixture

Mixture

# Compositions

This component contains no hazardous ingredients except for the followings.

#### C. Biotin-labeled antibody

Chemical name/ Generic name	CAS number	Concentration (wt %)
Glycerol	56-81-5	<u>≤</u> 54.05
Stabilizer for labeled-antibody	-	≤ 43.24

# F. Stop solution

Chemical name/ Generic name	CAS number	Concentration (wt %)
Water	7732-18-5	95.32
Sulfuric acid	7664-93-9	4.68

The following components do not contain hazardous ingredients.

- A. Capture antibody coated microplate
- B. Standard (lyophilized)
- D. Enzyme-labeled streptavidin
- E. TMB Solution
- G. Dilute solution
- H. Washing solution (20x concentrated)

# Special remarks

Stabilizer for labeled-antibody contains the followings, while all the ingredients in it are not disclosed by the maker. Ethanol (CAS number: 64-17-5)

1.2% (< 0.52% in this product)



Date of revision: August 9, 2024



2 -Methyl-4-isothiazolin-3-one (CAS number: 2682-20-4) 0.02% (< 0.009% in this product) 5-Bromo-5-nitro-1,3-dioxane (CAS number: 30007-47-7) 0.02% (< 0.009% in this product)

# **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 antibody coated microplate
D. Enzyme-labeled streptavidin
No information
E. TMB Solution
No information
No information
H. Washing solution (20x concentrated)
No information

B. Standard (lyophilized) May cause skin, eyes and respiratory system irritation or cause allergic

reaction if contact with or inhaled this product.

C. Biotin-labeled antibody May cause allergic reaction if contact with this product.

F. Stop solution Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause damage to respiratory system.

May cause damage to respiratory system through prolonged or repeated

exposure.

# Protection of first-aiders

Wear appropriate eyes and skin protective equipment.

# Note to an attending physician

A. Capture antibody coated microplate

B. Standard (lyophilized)

D. Enzyme-labeled streptavidin

E. TMB Solution

F. Stop solution

G. Dilute solution

H. Washing solution (20x concentrated)

No information

No information

No information

C. Biotin-labeled antibody May cause allergic reaction if contact with this product.

Product with carcinogenic potential.

Notify a physician of the name of the exposed substance.

# **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 antibody coated microplate

B. Standard (lyophilized)

D. Enzyme-labeled streptavidin

E. TMB Solution

G. Dilute solution

H. Washing solution (20x concentrated)

No information

No information

No information

C. Biotin-labeled antibody Fire may produce irritating, toxic and/or corrosive gases.

F. Stop solution In case of fire, toxic decomposition products may be generated.

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

- C. Biotin-labeled antibody
- D. Enzyme-labeled streptavidin
- E. TMB Solution
- G. Dilute solution
- H. Washing solution (20x concentrated)

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.

#### F. Stop solution

Wear protective equipments and stop the leak after confirming that this product is not dangerous.

In case of small amounts, wipe off spilled material with waste or wiping cloth and collect it in an adequate waste container.

If case of large amounts, prevent leakage and enclose by embankment.

# Secondary disaster prevention measures

No information

# **Section 7: HANDLING AND STORAGE**

#### Handling

- A. Capture antibody coated microplate
- B. Standard (lyophilized)
- D. Enzyme-labeled streptavidin
- E. TMB Solution
- G. Dilute solution
- H. Washing solution (20x concentrated)



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). Avoid direct sunlight, high temperature and high humidity.

C. Biotin-labeled antibody

Prevention of contact

Technical measures Install appropriate equipment and wear suitable protective

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

Do not inhale dust/fume/gas/mist/vapors/spray.

Inhalation or contact may cause irritation or inflammation of skin or eyes.

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

Wear protective gloves.

Wash hands thoroughly after handling.

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

Refer to "Section 10: Stability and Reactivity".

F. Stop solution

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 Do not handle container violently such that wiping out or dragging.

Prevent spill, leak or splash of the product to avoid vapour generation.

Wash hands thoroughly after handling.

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

Wash contaminated clothing before reuse. Avoid direct sunlight or high temperature.

Avoid contact with oxidizing agents or reducing agents.

# Storage

Technical measures Store in a biomedical refrigerator at 2 - 8°C.

Incompatible materials and mixtures

Prevention of contact

A. Capture antibody coated microplate

B. Standard (lyophilized)

C. Biotin-labeled antibody

D. Enzyme-labeled streptavidin

E. TMB Solution

No information

No information

No information

F. Stop solution Oxidizing agents, reducing agents

G. Dilute solution No information
H. Washing solution (20x concentrated) No information

Conditions for safe storage Avoid direct sunlight. Store in a cool dark place.

Packing material

A. Capture antibody coated microplate Aluminium pouch with desiccant

B. Standard (lyophilized)
 C. Biotin-labeled antibody
 D. Enzyme-labeled streptavidin
 Polypropylene
 Polypropylene

E. TMB SolutionF. Stop solutionHigh density polyethylene

G. Dilute solution Polyethylene
H. Washing solution (20x concentrated) Polyethylene



#### Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### **Permissible concentration**

# **Occupational Exposure Limits**

- A. Capture antibody coated microplate
- D. Enzyme-labeled streptavidin
- E. TMB Solution
- G. Dilute solution
- H. Washing solution (20x concentrated)

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

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 antibody

ACGIH TLV-STEL (2018) 1000 ppm (Ethanol)

F. Stop solution

ACGIH TLV-TWA (2018) 0.2 mg/m<sup>3</sup> (Sulfuric acid)

ACGIH TLV-STEL (2018) Not applicable

#### **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.

Install an eyewash and safety shower in the workplace where this product is stored or handled.

#### Personal protective equipment

Respiratory protection Wear an appropriate protective mask.

Especially, wear gas mask for sulfurous acid gas as necessary regarding

F. Stop solution.

Hand protection Wear protective gloves. Eye protection Wear safety glasses .

Skin and body protection Wear protective safety cap, lab coat, apron or safety shoes if necessary.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

# Appearance (physical state, form and colour)

A. Capture antibody coated microplate

Pre-blocked and coated microplates

B. Standard (lyophilized) White powder

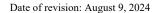
C. Biotin-labeled antibody
D. Enzyme-labeled streptavidin
Clear and colourless liquid
Clear and colourless liquid
E. TMB Solution
Clear and colourless liquid
F. Stop solution
Clear and colourless liquid
G. Dilute solution
Clear and colourless liquid
H. Washing solution (20x concentrated)
Clear and colourless liquid

**Odour** No information

Odour threshold No information
pH No information
A. Capture antibody coated microplate No information

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

C. Biotin-labeled antibody
 D. Enzyme-labeled streptavidin
 E. TMB Solution
 F. Stop solution
 No information
 No information
 Strong acid





G. Dilute solution 7.2 - 7.6

H. Washing solution (20x concentrated) 7.2 - 7.6 (after diluting with distilled water)

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

**Solubility** Every component other than A. Capture antibody coated microplate 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, high humidity, heat and flames

**Incompatible materials** 

A. Capture antibody coated microplate

B. Standard (lyophilized)

C. Biotin-labeled antibody

D. Enzyme-labeled streptavidin

E. TMB Solution

No information

No information

No information

F. Stop solution Oxidizing agents, reducing agents

G. Dilute solution No information
H. Washing solution (20x concentrated) No information

Hazardous decomposition products

A. Capture antibody coated microplate No information B. Standard (lyophilized) No information

C. Biotin-labeled antibody Carbon oxides, nitrogen oxides

D. Enzyme-labeled streptavidin No information E. TMB Solution No information

F. Stop solution In case of fire, toxic decomposition products may be generated.

G. Dilute solution No information
H. Washing solution (20x concentrated) No information

# **Section 11: TOXICOLOGICAL INFORMATION**

# **Toxicological information for product**No information

# Toxicological information for ingredients

C. Biotin-labeled antibody

Ethanol

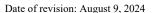
Acute toxicity (oral): Rat  $LD_{50} = 10,470 \text{ mg/kg}$  (OECD Test Guideline 401) Acute toxicity (inhalation: vapor): Rat  $4h LC_{50} = 124.7 \text{ mg/L}$  (OECD Test Guideline 403)

Skin irritation/corrosion: Skin - Rabbit

Result: No skin irritation - 24 h (OECD Test Guideline 404)

Eye damage/irritation: Eyes - Rabbit

Result: Causes serious eye irritation.





(OECD Test Guideline 405)

Respiratory or skin sensitization Maximization Test - Guinea pig

Result: negative (OECD Test Guideline 406) Remarks: (in analogy to similar products)

The value is given in analogy to the following substances:

Methanol

Germ cell mutagenicity Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative
Test Type: dominant lethal test
Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 478

Result: Positive results were obtained in some in vivo tests.

# F. Stop solution

Sulfuric acid

Acute toxicity (oral): Rat  $LD_{50} = 2,140 \text{ mg/kg}$ Acute toxicity (inhalation: dust/mist): Rat  $4h LC_{50} = 0.375 \text{ mg/L}$ 

Skin irritation/corrosion:

Eye damage/irritation:

Since pH of concentrated sulfuric acid was 1 or less, it was judged to be a corrosive substances with the GHS classification standards.

There is a description that the critical damage to the eye accompanied by

solutions of anterior chamber of eye was acknowledged in example of accident in human.

Furthermore, there is a description that moderate irritation with 5% liquid and severe irritation with 10% liquid were acknowledged to the eye of a

abbit.

Specific target organ toxicity

(single exposure):

There are reports that in the inhalation exposure of low

concentration in humans, airway irritation such as cough and breath shortness is identified, and at high exposure levels, acute effects such as cough, breath shortness and hemoptysis shedding etc., and permanent

effects such as functional depression of lungs,

fibrosis and emphysema were identified, and that hemorrhage in lungs and dysfunction were identified by 8-hour inhalation exposure in guinea pigs.

Specific target organ toxicity

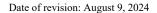
(repeated exposure):

In the 28-day inhalation exposure test using rat, cell proliferation in laryngeal mucosa is acknowledged in guidance value of Category 1, and in the 14 to 139-day repetition inhalation exposure test using the guinea pigs of the concentration of guidance value within the limits of Category 1, respiratory and lung disorder, such as nasal-septum dropsy, pulmonary emphysema, atelectasis, hyperemia, dropsy, bleeding and thrombosis of bronchioles are recognized, and further in the 78-week inhalation exposure test using a cynomolgus, histological change as hyperplasia of a cell, the wall thickening, etc. in bronchioles of lungs was acknowledged in the dosage (0.048 mg/L, 23.5 Hr/Day) of the range of the guidance value of Category 1.

#### **Section 12: ECOLOGICAL INFORMATION**

# **Ecological information for product**

Ecotoxicity No information





Persistence and degradability

Bioaccumulative potential

Mobility in soil

Hazardous to the ozone layer

No information

No information

No information

# **Ecological information for ingredients**

C. Biotin-labeled antibody

Ethanol

Ecotoxicity (acute) Toxicity to fish

Flow-through test  $LC_{50}$  - Pimephales promelas (fathead minnow) - 15,300 mg/L - 96 h

(US-EPA)

Toxicity to daphnia and other aquatic invertebrates

Static test  $LC_{50}$  - Ceriodaphnia dubia (water flea)

- 5,012 mg/L - 48 h Remarks: (ECHA)

Toxicity to algae

Static test ErC<sub>50</sub> - Chlorella vulgaris (Fresh water algae)

- 275 mg/L - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria

Static test IC<sub>50</sub> - activated sludge - > 1,000 mg/L - 3 h

(OECD Test Guideline 209)

Ecotoxicity (chronic) Toxicity to fish

Semi-static test NOEC - Danio rerio (zebra fish)

- 250 mg/L - 120 h Remarks: (ECHA)

Semi-static test NOEC - Daphnia magna (Water flea)

- 9.6 mg/L - 9 d Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates

Semi-static test NOEC - Daphnia magna (Water flea)

- 9.6 mg/L - 9 d Remarks: (ECHA)

Persistence and degradability Biodegradability

Aerobic - Exposure time 15 d

Result: ca.95% - Readily biodegradable.

(OECD Test Guideline 301E) Biochemical Oxygen Demand (BOD)

930 - 1,670 mg/g, Remarks: (Lit.)

Theoretical oxygen demand

2,100 mg/g, Remarks: (Lit.)

Bioaccumulative potential Due to the distribution coefficient n-octanol/water, accumulation in

organisms is not expected.

Mobility in soil No information Hazardous to the ozone layer No information

F. Stop solution Sulfuric acid

Ecotoxicity (acute) Fish (Bluegill) 96 h  $LC_{50} = 16 - 28 \text{ mg/L}$ 

Ecotoxicity (chronic)

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Hazardous to the ozone layer

No information

No information

No information

# **Section 13: DISPOSAL CONSIDERATIONS**

Date of revision: August 9, 2024



# Remaining product

- A. Capture antibody coated microplate
- B. Standard (lyophilized)
- C. Biotin-labeled antibody
- D. Enzyme-labeled streptavidin
- E. TMB Solution
- G. Dilute solution
- H. Washing solution (20x concentrated)

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

#### F. Stop solution

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

Neutralize with slaked lime, then discard it according to relevant law regulations.

In the absence of an appropriate processing facility, we consign processing to a waste disposal contractor approved by the prefectural governor.

#### 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 2796

UN proper shipping name SULPHURIC ACID with not more than 51% acid or BATTEERY

FLUID, ACID

Transport hazard class(es) 8
Subsidiary risk Packing group II

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 Ethanol

Sodium chloride

Potassium dihydrogenphosphate

Potassium chloride

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

Sulfuric acid

[1,1'-Biphenyl]-4,4'-diamine, 3,3',5,5'-tetramethyl-

# 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 (Sulfuric acid, Ethanol)

# **Section 16: OTHER INFORMATION**

# Reference

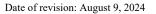
Information of Institute of Tokyo Environmental Allergy, ITEA Inc.

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.