

## MATERIAL SAFETY DATA SHEET

Date Printed: October 29, 2010

### Section 1 - Product and Company Information

Product Name: DS Mouse IgE ELISA(OVA)  
Brand: DS Pharma Biomedical Co.Ltd.  
Company: DS Pharma Biomedical Co.Ltd.  
Address: 33-94 Enoki, Suita, Osaka 564-0053, JAPAN  
Phone: 06-6386-2164  
Fax: 06-6337-1606

### Section 2 - Composition/ Information on ingredients

- (1) Standards : Mouse OVA specific IgE
- (2) Buffer : Phosphate buffer solution
- (3) OVA-enzyme conjugate : HRP-labeled OVA(ovalbumin)
- (4) Antibody coated wells : Anti-Mouse IgE monoclonal antibody(rat)
- (5) Wash buffer concentrate : Phosphate buffer solution
- (6) Substrate : TMB solution
- (7) Stop solution : Diluted sulfuric acid
- (8) Microplate for dispensing samples

- (6) TMB solution contains organic solvents, additives and water.

[1] Chemical Substance Name : N-methyl-2-pyrrolidone

Content : 5-10%

CAS No. : 872-50-4

Chemical Substances Control Law(Japan)

: 5-113, N-alkyl(C 1,2)-2-pyrrolidone

Air Pollution Control Law(Japan) : Hazardous air pollutants

(219 of Central Environment Council 6th Report)

TSCA inventory : Listed, 2-Pyrrolidone, 1-methyl-

[2] Chemical Substance Name : Propylene glycol

Content : 1-5%

CAS No. : 57-55-6, 1,2-Propanediol

Chemical Substances Control Law(Japan) : 2-234, Propanediol

TSCA inventory : Listed, 1,2-Propanediol

- (7) Stop solution contains sulfuric acid

[3] Chemical Substance Name : Sulfuric acid

Content : less than 5%

CAS No. : 7722-84-1

Industrial Safety and Health Law (Japan): MSDS required(>1%).

Poisonous and Deleterious Substances Control Law (Japan) : Listed, except  
for the mixture containing less than 10%. Not applied to the product

TSCA inventory : Listed, Sulfuric acid

### Section 3 - Hazards Identification

The product has not been classified according to the legislation in force.

May irritate eyes and skin  
May harmful if inhaled and ingested.

### Section 4 - First Aid Measures

General advise :

Wash off immediately with soap and plenty of water. Use personal protective equipment.

Ingestion:

Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable, take to a hospital.

Inhalation:

Move injured person into fresh air and keep person calm under observation. If uncomfortable, take to a hospital.

Eye contact:

Remove any contact lenses at once. Immediately flush with plenty of water for up to 15 minutes. If irritation persists, continue rinsing and consult a physician.

Skin contact:

Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists consult a physician.

### Section 5 - Fire Fighting Measures

During fire, gases hazardous to health may be formed. Extinguish with Carbon dioxide, dry chemical powder, foam or water. Use protective equipment appropriate for surrounding materials.

### Section 6 - Accidental Release Measures

Avoid inhalation and contact with skin and eyes, flush contaminated area with plenty of water.

### Section 7 - Handling and Storage

Safe handling advise: Avoid inhalation and contact with skin and eyes.  
Handle material with suitable protection.

Storage conditions : Store at 2-8°C

### Section 8 - Exposure Controls / Personal Protection

Engineering measures : Provide adequate ventilation. Safety shower and eye bath.

Personal protection : Impervious gloves, Safety glasses, Protective clothes

#### Section 9 - Physical/Chemical Properties

Appearance : (1); Lyophilized  
(2), (3), (5)-(7); Liquid  
(4), (8); Microplate  
pH : Not available  
Boiling point : Not available  
Explosive limit : Not available  
Vapor pressure : Not available  
Specific gravity : Not available  
Solubility in water : (1)-(3), (5)-(7); Miscible  
(4), (8) ; Insoluble

#### Section 10 - Stability and Reactivity

Stability : Stable under the prescribed storage conditions.  
Conditions to avoid : Strong oxidizers, Sun light  
Hazardous Polymerization: Will not occur

#### Section 11 - Toxicological Information

Not available as the mixture  
[1] as N-methyl-2-pyrrolidone: Not available  
[2] as Propylene glycol  
Environmental Toxicity  
Fish(Oryzias latipes)  
Acute toxicity; 96hr-LC50>100mg/L  
Prolonged toxicity; 14day-LC50>100mg/L  
Toxicity to humans  
Not available  
[3] as sulfuric acid  
Environmental Toxicity  
Not available  
Toxicity to humans  
May cause skin irritation.  
May be harmful if absorbed through the skin.  
May cause eye irritation.  
May irritate mucous membranes and upper respiratory tract.  
Additional information  
ACGIH : Suspected Human Carcinogen(A2)

#### Section 12 - Transport Information

Air transportation (ICAO/IATA): As a mixture, the substance is subjected to no limitation.

#### Section 13 - Other Information

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct to be the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide.